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AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 15, 1957



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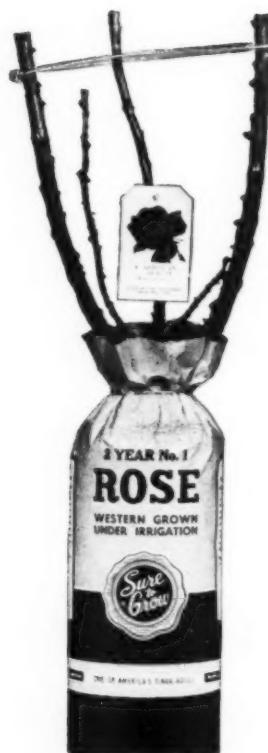
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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the May 1 issue will close Friday, April 12.

Forms for the May 15 issue will close Friday, April 26.

Mail copy to arrive at Chicago by these dates—no later!

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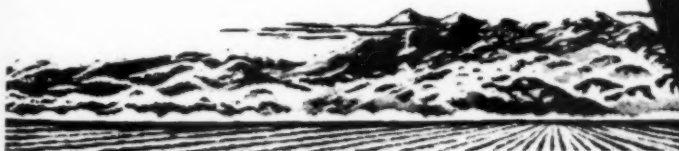


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AMERICAN NURSERYMAN

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Editor and Publisher

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Advertising Manager

Editorial

REASONS FOR JOINING

Comments have appeared on this page in recent months on the opportunities for state associations to attract additional members by suitable convention programs and activities, thus increasing the membership and making it more representative of the industry as a whole. But there is no reason for the nonmember to wait for an invitation and be solicited to join his state association and attend its meetings.

The average nurseryman not in contact with his state association has slight conception of the work it does, in the fields of legislation, politics, labor, publicity and others, that affects each and every one in the industry in a given area. In the comparatively brief reports of the annual conventions which appear in this magazine, only a limited description can be given of such projects. The nurseryman would find it enlightening to sit in on a business session of his state association just to learn what is going on. He would find the beneficial results probably well worth the small dues necessary to membership.

But the new nurseryman—as well as the established nurseryman who has not yet joined an association—will find more direct means of profit in attending such a convention. He will have the opportunity of mingling with the owners and operators of enterprises of similar size and character to his own, and in the lobby he will be able to talk over with them such matters as procedures, prices and profits, which he would not often discuss with a local competitor, however friendly.

Much more might be said as to the direct and indirect benefits from joining one's state association, but the fact is that it is a necessary part of being a nurseryman, if one wishes to get the most out of his business and to be a long-run success. This is not to speak of what is often called one's duty to the industry, which is

The Mirror of the Trade

to support the activities that are for the protection and advancement of the trade in the association's territory, nonmembers as well as members. One does not wish to be a free rider. But if one has read the convention reports in the issues of this magazine for the past few months, he should find enough stimulus there to attend the next meeting of his own association, and once he has done so, there is strong likelihood of his becoming a member.

LEGAL DECISIONS

In this issue under a new department heading, "Legal Decisions," will be found abstracts of cases relating to the nursery industry which have been reviewed in important appellate courts, prepared by a practicing attorney. Readers from time to time have expressed their interest in such decisions, either affecting their own affairs or regarding the nursery industry in general. It is expected, therefore, that readers will find this department of real interest and perhaps at times of direct value.

In this day of complex legislation, it is well to have a passing knowledge of decisions that affect one's own industry. Hence, reading of this department as it appears from time to time, and possibly preserving the pages as they appear, offers an opportunity to readers of this magazine to profit from another valuable service.

INDUSTRIAL AWARDS

In current issues of this magazine appear illustrations of various plantings which this year have received awards from the American Association of Nurserymen in its industrial landscaping contest. The pictures are presented in this manner in the expectation that closer study will be given them than if one issue were crowded with all of the large number of awards.

It is regretted that space is not available for more illustrations of some of the plantings, where they are available, but readers who are particularly interested, for one reason or another, may find obtainable for examination the handsome books of photographs which some of the industrial companies have prepared, so proud are they of their plantings and the awards received.

These pictures warrant study by the rank and file of nurserymen,

because there are many more projects eligible for such planting. These include not only the factories generally pictured, but also newly developed areas, blighted metropolitan districts that are reconstructed and many types of edifices which are not industrial, but which will be more likely to be well planted if industrial buildings in the locality show an example. These are public buildings, churches and, indeed, any type of building which is not a residence. Last year, business firms spent a total of \$72,000,000 on landscaping of this nature.

The extensive highway developments which will be promoted by the allotment of federal funds will do much to advance such projects. Beautiful highways will generate beautifully planted structures along the right of way. In all this the nurserymen of the country have great opportunities.

GOVERNMENT SPENDING

The general outcry about the reduction of the federal government's budget now before Congress is so widespread that action of some kind, maybe small, maybe large, will be taken by the lawmakers at Washington.

Hence there is a double possibility that this year those lawmakers will listen to nurserymen who are making protests against the competition of government agencies under old laws and more particularly under the new soil bank program. The total of all increases and appropriations under current proposals amounts to nearly \$16,000,000. This is small enough, compared to the total budget, but it represents a vast amount of possible competition from state and federal nurseries if the various agencies have their way on added planting facilities.

Hence the American Association of Nurserymen and several state associations have urged their members to write their Senators and Congressmen to oppose such appropriations. The tendency to give heed to the protests of small businessmen should be a third reason for some action in the trade's favor. If you have not written your representatives at Washington in this regard, take time out even in your busy season and attend to this matter, lest the competition from government agencies interferes with your business in years hence.



Old English Garden, a Presentation of Daybreak Nurseries, Inc., Westport, Conn., at New York's Flower Show.

Spring Flower Shows

Nurserymen Wake Interest of Public in Home Landscaping

THE SPRING flower show is a fashion show of gardening trends and a dress parade of spring. It intrigues the average gardener to new efforts and to new appreciations; it tends to broaden knowledge of the use of plants and the range of materials in the various classifications; it educates with reference to techniques and quality workmanship, and at its best it carries an aura of spring magic. In consequence visitors are led to jot down plant names and exhibitors' addresses and to plan an early week-end trip to a nursery or seed store. Recent weeks have seen the big flower shows across the country telling their stories again. The following reports indicate that nurserymen are continuing to be important wheels in staging these promotional events.

NEW YORK SHOW

Spring splashed its spectacular color and spirit over the New York metropolitan area from March 31 to April 6 in the form of the 40th International flower show staged at the New York Coliseum.

This magnificent floral panorama, cosponsored by the New York Florists' Club and the Horticultural Society of America, attracted a record-breaking opening-day crowd of 30,000 garden enthusiasts, and officials of both sponsoring organizations predicted that the over-all attendance for the 7-day run of the show would approximate early postwar records.

The show was officially opened with a special proclamation from the mayor's office announcing that the week of the show would be known as flower show week in New York. The recently completed Coliseum is the fourth exhibition hall used in the show's 40-year-old history, and, according to the majority of exhibitors queried, it is by far the finest for facilities and staging areas.

The majority of gardens were functional in design. Several of the garden exhibits adhered to the theme of the show, "Gardens of Little Old New York."

Panfield Nurseries, Huntington, L. I., was awarded the gold medal of the Horticultural Society of New York for a spring garden designed around the facade of a white clapboard house. A flagstone terrace overlooked a planting of tulips in many colors, with a curved grass path on the right of the terrace leading to an open mall area and a small garden pool surrounded by banks of white azaleas beneath a specimen white dogwood. A suggestion of depth was provided by a planting behind a circular entrance cut in a simulated concrete wall in the background.

Garden for Outdoor Living

The horticultural society also presented a special trophy to Dalsimer, Inc., and Landscape Associates, Brookville, L. I., for a garden especially designed for outdoor living. Sliding doors 12 feet high opened onto



Planting about shelter and patio by Landscape Associates and Dalsimer, Inc., judged best in show at Long Island event.

a weathered wood block terrace holding a group of outdoor furniture. A raised evergreen planting was on the extreme right, enclosed in a redwood planter box and featuring a huge specimen white pine tree, with a small pool in the foreground. The area directly below the terrace was covered with crushed white marl, with a semicircular redwood garden bench backed by a planting of white azaleas and broad-leaved evergreens, with pink hyacinths for color accent. A bed in the foreground of the design contained a clump of white birch, two specimen white dogwood

trees, pink azaleas and white hyacinths.

The Lambertus C. Bobbink memorial trophy, presented to the most outstanding horticultural exhibit covering 50 square feet, was won by the Jackson & Perkins Co., Newark, N. Y., with a formal rose garden enclosed by a low brick wall. Formal beds were planted with the firm's new floribunda varieties, with each bed accented by tree roses and enclosed with dwarf boxwood hedges. Large cedar trees provided the background.

The special trophy of the New



A. Gude & Sons Co., Rockville, Md., took the trophy for the best garden at the Washington, D. C., flower show with this planting.

York Florists' Club was awarded to the Brooklyn Botanic Garden for a unique collection of Japanese bonsai, or dwarfed trees, against an authentic Japanese setting. The T. A. Weston memorial trophy was given to the New York Botanical Garden for an exhibit of an easy-to-manage vegetable garden.

Old English Garden

Daybreak Nurseries, Inc., Westport, Conn., won a first prize with an old English garden, which featured a rustic shelter at one end overlooking a lily pool. Beds on the right-hand side of the design, separated by grass paths, were planted with andromedas, azaleas, lilacs, flowering cherry, azaleas and tulips. The planting in front of the pool featured white and pink azaleas and several varieties of tulips, with a dwarf boxwood edging. The shelter was shaded by a large white dogwood on the left and a large white birch on the right.

Hicks Nurseries, Inc., Westbury, L. I., displayed a rhododendron and azalea garden on two levels. A raised weathered brick patio, enclosed by a white wall, held two antique wrought-iron benches, with a natural sapling fence on two sides of the patio, which fronted a planting of pink rhododendrons and azaleas. Concrete slab walks led to the patio from two sides, with a small lawn area facing the raised patio decorated with a metal figure surrounded by a planting of lavender rhododendrons and white and salmon-colored azaleas enclosed in a taxus hedge.

Brookside Nurseries, Darien, Conn., exhibited a large formal garden, rectangular in construction, centered by a circular pool and fountain. Beds of tuberous-rooted begonias were arranged along the length of the garden, which held a larger fountain, complete with antique statue, at the extreme end, surrounded by plantings of caladiums. Paths of crushed blue and clear glass radiated on four sides from the center pool. A sign on the display pointed out that most wastes should go into increasing soil fertility; the soil used in the display was composed of leaves, garbage, coal ashes and grass, composted.

Goldfarb's Arcadian Gardens, New York, displayed a garden for the suburban ranch-type home. A raised patio, with a ranch home facade, overlooked an informal lawn area. A clump of white birch on the right was underplanted with pink azaleas. The foreground on the left was planted with spring-flowering



Two plantings at the California international flower show. Left, the top award winner in the landscape class, a home and garden exhibit by the R. W. Smith Co.; right, the gold medal winner in the nurserymen's class, a Persian garden by the Armstrong Nurseries. Both received special trophies for beauty of display.

shrubs, white azaleas, daffodils and pink tulips. A dwarf apple tree was trained against the facade of the house, and there was outdoor furniture on the patio.

Madsen & Christensen, Wood-Ridge, N. J., featured a 2-level pool and fountain garden, formal in design, with the rectangular pool bordered by beds of red and white azaleas. Specimen *Taxus capitata*, closely sheared, was at each end of the garden with water lilies and other aquatic plants in the pool.

Tropical Display

Julius Roehrs, Inc., Rutherford, N. J., was given a special certificate for a colorful tropical garden set around authentic Oriental ruins. A miniature waterfall and pool were planted with exotic foliage and flowering plants, with each plant keyed to an identification chart.

The North Shore Horticultural Society of Long Island was given a special award for a formal garden accented by beds of red and white azaleas on each side of a life-size garden statue. The foreground of the garden, divided by a grass path, was planted with clusters of multi-colored tulips. Mr. and Mrs. Robert Stone, Marion, Mass., exhibited their world-famous acacia collection on each side of the escalators leading to the main display hall.

University Exhibits

Rutgers University, New Brunswick, N. J., was awarded a gold medal certificate in the educational display class for an exhibit designed around the precautions which should be taken in protecting trees against damage from major construction in the area. A tree trunk, with a cut-away window in front which extend-

ed several feet down beneath the soil line enabled visitors to see and study the proper placement of drain tiles, fill soil and terracing for successful tree planting and protection.

The exhibit staged by Cornell University, Ithaca, N. Y., stressed the recognition and treatment of common lawn weeds, in addition to counseling by experts on the proper methods used in establishing a weed control program for the home grounds.

CALIFORNIA SHOW

The eighth annual California international flower show at Hollywood park, Inglewood, Calif., March 16 to 24, drew some 200,000 persons. More than 60,000 persons attended during the opening week-end, includ-

ing approximately 5,000 who paid \$5 each to attend the charity premiere sponsored by the Assistance League of Southern California, according to William A. Rodman, general manager. The weather was cool but fair on the opening week-end, and at peak hours the first Sunday there was standing room only, as masses of flower lovers jammed the two floors and seven acres of Hollywood park's clubhouse and main grandstand.

Thirty-six garden exhibits, ranging from a \$1 million orchid display to informal patio gardens, and practical ideas for home gardeners, along with displays by retail florists, cut flower growers, garden clubs, flower societies and educational institutions, combined to offer the public a floral spectacle. Cosponsored by



Jackson & Perkins Co., Newark, N. Y., won first prize and a gold medal for this rose garden featuring White Bouquet floribunda roses at the New England Show.



Schlegel & Son, Parma, O., won first prize for a small garden with this planting at the Cleveland flower show.

Southern California Horticultural Institute, Inc., and Southern California Floral Association, the show displayed the wide range of cut flowers, flowering plants, foliages, trees, lawns, bedding plants and other plant materials that are grown in southern California as well as artistic ways in which to use them for home and garden decoration.

Approximately \$50,000 in cash prizes, gold medals and trophies was awarded to competitive exhibits by the flower show's executive committee, headed by J. Awdry Armstrong, of Armstrong Nurseries, Ontario, executive chairman.

"The Harbor View," a large hill-

top garden display by Henry C. Soto Corp., landscape architects, won the Manfred Meyberg sweepstakes trophy named for the late president of Germain's, Inc. Slowly changing lighting created the illusion of sunrise to midnight over Los Angeles harbor as viewed from a modern garden high in Palos Verdes hills in this garden setting, with wide lawns, flowering pink magnolias and a simple pool and fountain all secondary to the extraordinary distant view.

Orchid growers of America, Inc., contributed the feature exhibit at the show, directly opposite the main entrance. Fully 110 feet wide, this large exhibit was built around a fountain

and lagoon and displayed 3,000 specimen cattleya orchids, as well as hundreds of prize cymbidium, cypripedium, phalaenopsis and oncidium orchids.

Gold Medal Winners

Gold medals awarded in each of the four main sections of the show went to Armstrong Nurseries, Ontario, nurserymen's section; Dos Pueblos Orchid Co., Goleta, orchid exhibit; Casablanca Florist, Los Angeles, retail florists, and Paul H. Lambert, Redondo Beach, cut flower growers' section.

A Persian garden was the theme of Armstrong Nurseries' exhibit with Persian dancing girls in the background, near a multicolored fountain and pool. Four-foot urns filled with flowering peach blossoms, full-size fruit trees, orange, kumquat and grapefruit, and richly hued flower beds carried out the theme of Oriental splendor.

Landscape Design Winners

California informal living at its best, indoors and outdoors, was depicted in a garden and home exhibit by R. W. Smith Co., landscape architects, winner of the highest award for landscape design. Large flowering azaleas, ranging from deep crimson to blush-pink shades, provided colorful accents in this exhibit that included, as well as the garden, three adjoining rooms, patio, adjoining dining area and ultramodern tile kitchen.

Rosedale Nurseries, Inc., Monro-

[Continued on page 40]



This Rock Ledge Planting Won a First Prize and Gold Medal for Alexander I. Heimlich, Woburn, Mass., at the New England Show

First South Florida Course At Miami on Pest Control

By Porter V. Taylor

Recognizing the increasing importance of the nursery industry in south Florida, county agent John D. Campbell arranged to have a short course held at Miami, in addition to the annual course at Gainesville, Fla., covering such subjects as insects, diseases, plant propagation, landscaping and management problems.

The course was scheduled in two parts. The first session, held March 21, was a pest control field day, and most of the subjects covered pertained to insects and plant diseases and material and equipment to cope with these problems. The remaining two days of the course, scheduled for early June, will deal primarily with subjects of interest to nurserymen. The pest control field day attracted a varied group of spectators. Of the approximately 500 persons attending, about one third were nurserymen, one third were garden supply dealers, about 50 were pest exterminators and the remainder were homeowners.

The Dade county vocational agricultural building was packed from the opening of the first session at 9:30 a. m. until the close of the final session at 9:30 p. m.

Plant Diseases

Dr. Donald Coe, extension plant pathologist, agricultural extension service, University of Florida, Gainesville, speaking on the subject "Diseases of Ornamental Plants," said that during the past winter and summer, Florida weather had been ideal for the increase of plant diseases in woody ornamentals. Pointing to the warm winter, with an unusual amount of rain and fog, as being responsible for an increase in fungus diseases, Dr. Coe showed color slides of numerous diseased foliage plants. He cited the need for more research in this field, saying that too many plants are being given an all-purpose treatment instead of a specialized treatment. He said that repeated use of all-purpose sprays would result in an accumulation of copper in the soil.

Speaking late in the day on "Bark and Root Disease of Citrus," Dr. Coe said that 70 per cent of all Florida citrus trees are infected with a form of virus known as psorosis. However, the problem is not causing immedi-

ate alarm because it sometimes takes 15 years for the effects to show up on the diseased trees. A strain of budwood has been developed which is virus-free, and eventually it is hoped that all existing citrus trees will be replaced with this new type.

Viruses

On the subject of viruses, Dr. Coe also pointed to the need for additional research. He said that the word is being bandied about all over the country, with many people calling any mysterious cause of an abnormal condition a virus. He said that there is some question as to whether viruses are alive or are chemical; that some viruses reproduce and others are spread by insects, and that some viruses can exist only on living plants and others seem to live indefinitely anywhere.

Dr. Lorne McFadden, plant pathologist, University of Florida subtropical experiment station, Homestead, discussed "Diseases of Indoor Foliage Plants," pointing out that dieffenbachia and philodendron are showing increasing signs of bacterial diseases. While these were not said to be serious at the present time, he urged nurserymen to take steps toward better control and recommended the use of antibiotics. For the prevention of fungus in dieffenbachia, he recommended the use of disease-free mother blocks for propagation purposes. To combat the current increase in pothos root diseases, Dr. McFadden recommended soil sterilization with a Vapam treatment.

Lawn Pest

Chinch bug control is still the main problem in south Florida lawns, according to Dr. S. H. Kerr, entomologist, agricultural experiment station, University of Florida, Gainesville. In his talk on insects attacking foliage and ornamental plants, he recommended parathion and DDT for control of the chinch bug. Experiments have shown that when used as a lawn spray, parathion has a much longer residual effect in the soil than had been previously supposed. Although breaking down in the air within 24 hours, it remains effective in the soil for days or even weeks.

Since parathion is restricted to



John Hutton, president, Dade County chapter, Florida Nurserymen and Growers Association.

commercial users, Dr. Kerr recommended BHC and lindane with DDT for homeowners. He said that a pest known as the billbug has been discovered to be a serious threat to zoysia grasses. Color slides showed the life cycles of caterpillars and horn bugs.

Insect pests of fruits, lawns and ornamentals were discussed by Dr. D. O. Wolfenbarger, entomologist, University of Florida subtropical experiment station, who disagreed with the opinion frequently expressed by uninformed people that use of Mediterranean fruit fly spray has been the cause of the tremendous multiplication of insects in Florida. He said that the spray used for the fly is primarily a bait that appeals only to a few types of insect and this year's increase is merely the result of a cycle of ideal conditions. He pointed out that there has been a corresponding increase of insect population in the nearby Bahama islands, where none of the spray has been used.

Fruit Fly Program

Herald A. Denmark, state plant board entomologist, Gainesville, spoke on the Mediterranean fruit fly eradication program. He said that, as of March, 1957, only 18,590 acres are still being sprayed, as compared to 500,000 acres at the beginning of the program. A total of 6,000,000 acres has been sprayed, using about 10,000,000 pounds of malathion and 1,000,000 pounds of dieldrin.

Complete control has not come so fast as was originally expected, be-

[Continued on page 64]

Tips for Better Landscapes

Bottle-Brush Buckeye and Leucothoes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, L. I., N. Y.

Quite often some of our shrubs and trees seem to get lost along the way. It may be that society is changing, or that the shrub or tree does not have a growth habit that fits present-day living. Perhaps it never quite broke the barrier that exists between native plants and those propagated, cultivated and sold by nurserymen. Regardless of the cause, the bottle-brush buckeye, *Aesculus parviflora*, is not extensively grown or planted, even though it was introduced into cultivation about four years before George Washington officially became our first president. It is not a remarkable plant that should be highly recommended for current landscapes, but certainly this buckeye has some good points that swing the pendulum a bit in its favor.

Unlike most of its close relatives, the horse chestnuts and buckeyes, this plant grows in a shrublike form and spreads by horizontal runners. It is possible for a single plant to cover many square feet in a few short years. This is, of course, the reason it is not suited to small home landscaping. The maximum height is rarely over 10 feet in cultivation, even though the spread may be 10 feet.

The flower cluster is a slender upright panicle that may be as long as eight inches, each flower being a pinkish white. The size and form may be judged from illustration A. In 1956, on Long Island, N. Y., the flowers first made their appearance about July 25, which is nearly three weeks later than in some years. There is a cleanliness to the flowers as they sit like candles above the more or less flat sprays of leaves. I have never observed that it possesses an appealing odor, or any odor at all.

Chestnut-Brown Fruit

The fruits are chestnut-brown, smooth-skinned nuts that are about an inch and a half long. They appear on upright stalks, which, of course, were at one time parts of the flowers. There are never many fully developed fruits on an individual stalk, because the weight of more than a few nuts would be too great for their slender support.

Even though the plant is indigenous from South Carolina to Alaba-

ma and Florida, it responds well to northern conditions and can take temperatures to zero and even 10 or 15 degrees below. The exposure that it is subjected to seems to make little difference.

The foliage, like that of other members of the same horse-chestnut family, *hippocastanum*, is compound and appears in fives or sevens like fingers from the palm of one's hand. The leaves are a soft green, with a tinge of copper in the early stages of spring growth. The buckeye blends nicely with any surrounding evergreens, large shrubs or trees that may be in the immediate background. It makes an interesting contrast with the glossy leaves of sourwood or the deep, glossy green of an Oriental spruce.

What are the uses of such a large shrub? Well, it certainly does not pertain to a 50x100-foot lot, or even to one twice that size. Because of the spreading nature of the plant, it has a somewhat limited application. Certainly where large buildings, schools, commercial offices and factories are concerned, it can be used at the edges of a lawn area or in minor parts of a foundation planting. The lightly shaded roadsides; the parks, large or small, where a summer flower is needed and appreciated, and the lawns of village halls,

where spacious areas can emphasize the beauty of the bottle-brush buckeye in foliage and flower, are places where the shrub seems at home. There is a tropical impression created by this chestnut which seems to enhance Spanish and Italian types of architecture, particularly where such materials as stucco or adobe brick are used. Dust and smoke are not problems to this smooth-nut shrub, nor are moist soil conditions and reasonable amounts of shade.

Evergreen Leucothoes

In sharp contrast to the bottle-brush buckeye's neglect is the popularity of the leucothoes, drooping (*Leucothoe catesbaei*) and coast (*Leucothoe axillaris*), both of which also had their introduction to cultivation during the latter part of the 18th century, the coast species about 10 years before George Washington became commander in chief of the Continental forces. These leucothoes have been exceedingly well received by the landscape and nursery trade and thousands are sold and planted each year. *Leucothoe* is a large group, comprising about 35 species all told, but the two evergreen species are the only ones that are used to a considerable extent.

There is not a decided difference between the coast and drooping leucothoes except that *L. axillaris* has a more refined appearance and the leaves may only be about two to four inches long. *Leucothoe catesbaei* has leaves that are about two and a half to nearly six inches long, but the latter size is the exception. Five inches is a common length. The width varies, but again the leaf of the coast leucothoe is the sligher and sometimes appears linear, approximately an inch or slightly less at its widest point. The leaf of the drooping leucothoe in most cases will be about an inch and one-half wide; its tip is usually longer and more tapering. Occasionally the teeth are closer together. The petioles are longer, three eighths to five eighths of an inch as compared to the one quarter or three eighths of an inch of the coast leucothoe.

Leucothoe axillaris is supposed to become as tall as its close relative, but my observations under cultivated



Illustration A—The bottle-brush buckeye makes interesting upright flowers during July.



Illustration B—The flower buds of the leucothoes are borne in the axils of the leaves.

conditions have shown it to be smaller and often more arching or flatter-growing. It must be remembered, too, that neither species is always the same, and one should allow for a little margin of difference.

Both Types Drooping

The two names are confusing because both bear their flower buds in the axils of the leaves and both have drooping habits. There should be some similarities, since their native habitats overlap. The drooping leucothoe is native to inland Virginia and Georgia and to Tennessee. The coast leucothoe can be found from Virginia to Florida and in Mississippi.

The flowers are similar, developing from the pinkish-red axillary flower buds shown in illustration B to long racemes (two to three inches) of white bell-like flowers during April or May, depending on the location and the season. There is an undesirable, musty odor to these clear white flowers that may raise an eyebrow or a nose.

The fruits are not only unimportant landscape-wise, but are even rugged and unattractive, as may be seen in illustration D. Since these racemes of capsule fruits are of no value, except for propagation purposes, they should be removed as soon as the flowers have faded; this may be a substantial job if the planting is extensive.

The fall and winter color of these plants places them among the most attractive of the broad-leaved evergreens. The best color seems to be attained in areas where the plants receive some sun, but are protected during part of the day by light shade,

that of overhead deciduous oaks, for example, and not exposed to the blasts of a prevailing wind. The colors vary from red to scarlet to purplish red, mixed with deep greens or reddish greens. The reddish flower buds also add to the attractiveness of the foliage colors.

Hardiness Varies

The leucothoes at one time were listed as andromedas, and, when one compares the flowers, there is justification for such reasoning. A difference usually exists in the hardiness of the two leucothoes, with the drooping leucothoe being the more rugged of the two. It is doubtful that *L. axillaris* will consistently take temperatures to zero or below, while *L. catesbaei* has tolerated such abuse.

The forms are similar, characterized by strong growth from the base into arching, loose-appearing shrubs. They can attain an ultimate height of five or six feet, but, if the older basal stems are removed each year, the drooping leucothoe can be retained at two feet and the coast leucothoe at an even lesser height. It is important to practice yearly pruning to keep the plant from becoming too tall and awkward, as it is likely to do if allowed to grow untended.

When looking around the garden for foliage sprays for inside decoration, one does well to use leucothoe, but he should do the cutting by removing stems at the base of the plant. This foliage is excellent when combined with chrysanthemums in the fall, or in wreaths or other decorative pieces for Christmas. It is a good plant for the florist to grow in a bed so that he has easy access to good foliage.

Combining Plants

The uses are many. Where rhododendron or mountain laurel needs a basal planting, leucothoe is well suited, particularly the coast leucothoe, which looks better with mountain laurel than the drooping species. In some cases, *Leucothoe catesbaei* develops leaves that become too coarse—in combination with the Japanese andromeda or some of the hollies, for instance. The leucothoes do not look well when used as single plants. They need the company or their own kind. In many cases even three plants are not enough to give adequate body to a planting.

These plants are tie-in types because of their informal habit. They can connect one group of plants with another so that the whole planting appears as a unit, rather than a col-



Illustration C—The leucothoe flowers remind one of lily of the valley, upside down.

lection of plants. This is particularly true in foundation planting, although it applies also to shrub borders or courtyards. Leucothoes are arbitrators and seem to have the ability to settle differences between plants of conflicting habits.

Many shaded banks are improved by a mass of either species. They not only have a root system that adequately holds the soil, but improve the landscape picture as well. If the bank is exposed to full sun, the soil must be supplied with liberal quantities of organic matter before planting. The same is true of foundation and other plantings in full sun.

A small area between walks or under an oak or other deep-rooted tree, is a good place to mass leucothoe instead of pachysandra. That narrow planting area between the walk and the house is another good location. Deep shade is no problem, as long as good bottom drainage is present.

Pools tucked into a corner are [Concluded on page 56]



Illustration D—The leucothoe fruits are not particularly attractive and should be removed in the faded flower stage.

Trees, Shrubs and Evergreens For the Beginning Nurseryman

By Robert P. Meahl

Any list of plants prepared for a specific purpose reflects the likes and dislikes of the maker and is subject to criticism by others who may have varying ideas. The lists presented here are not meant to be rigid, subject to no modification, but rather to be used as guides or starting points by those who are considering beginning in the nursery business.

One preparing such lists must consider the community in which the business is to be located, the type of nursery business and the type of people who will be the customers. No nursery list should remain static year after year, but after experience has shown some items to be less popular, they should be eliminated. The nurseryman must constantly be on the lookout for superior strains or improved varieties, but an eye must be kept on their sales appeal and whether or not the public is ready to accept them in place of the older, better known types.

One of the pitfalls in preparing lists such as those given here is the tendency to make them too large. With the great number of good plants available, it is hard to cut down to a relatively short list, but, for the beginner, it is usually necessary from an economic standpoint. The first step would be to list the various size or use groups. Thus, trees could be listed as large or standard, medium and small, with representatives selected for each of the classes. The same method of classifying according to size should be used with all the types of plants to be handled—shrubs, narrow-leaved evergreens, broad-leaved evergreens, ground covers and vines.

In the accompanying lists the trees were divided only into large and small trees but any breakdown could be followed. Under some headings a basic list is given (group A), followed by the names of additional subjects (group B), considered good plants and worthy of carrying if the

operation is large enough to justify a larger list. Substitutions can be made to the basic list from the additional list without weakening the quality of the group.

Maples are probably the best known shade trees and certainly would be included by every nursery handling trees. Sugar maple is an excellent plant for form, foliage and fall coloration and would be rated near the top in any list. The red maple, although possibly not quite so strong as the sugar, is even brighter in fall coloration and has the added advantage of bright red flowers before the leaves.

Oaks are strong and long-lasting and both the red and pin are faster-growing than generally supposed. Both are good, having different growth habits, and both can be transplanted readily. The scarlet oak is a beautiful tree, but more difficult to move.

The sweet gum has beautiful star-shaped leaves, which are extremely brilliant in the fall, and the gray bark and form give it an excellent winter effect. It should be remembered that it, too, is difficult to move. The thornless honey locust has a form suggestive of the American elm, is relatively free of pests and has light, airy foliage, which does not hinder lawn growth. The Moraine form is similar, but has the added advantage of never producing seed pods, since it is a male and propagated asexually.

In a list of small or flowering trees, flowering dogwoods, both the white and pink, are at the top. They merit this rating, both from year-round beauty and from customer demand. There is no season when they are unattractive. Some crab apples should be included, whether those listed here or others is not so important since there are so many very good varieties. Magnolias are excellent for flowers, and Lenne is more reliable in flower production than other dark-flowered forms. Star and pink star are especially valuable because of their small size and attractive flowers.

Redbud gives beautiful flowers before the leaves and, since it blooms at about the same time as dogwood, makes an excellent planting com-

panion, giving a contrast in flower color and form. The best all-round hawthorn is Washington. It has good foliage and flowers, but is especially valued for its heavy crop of red fruit, which lasts well into the winter. There will be some demand for flowering cherries, and James H. Veitch gives large double flowers, while Weeping Higan gives single ones much earlier in the season. There will be a call for a red-leaved form of Japanese maple, and at least one should be carried.

In flowering shrubs, those which have good flowers or fruits, or both, should be given priority. The viburnums are generally excellent for both and fortunately are available in all size groups. Lilacs are valued for their showy, fragrant flowers. Honeysuckles are fast-growing plants, which will give a quick screen. Forsythias are among the first plants to flower in the spring, letting everyone know that winter is over. Winged euonymus is interesting throughout the year with the corky wings and makes a good conversation piece. Also, the red fall color cannot be surpassed.

Narrow-leaved evergreens are good all year. Those listed are good representatives of their size and shape. There are many others that might be used in place of or in addition to those without detracting from a planting. It is important to have the various forms, but a long list is not needed.

Broad-leaved evergreens are steadily increasing in popularity and should hold an important spot in any list. Most of them are good, and the selection should be made on the basis of hardiness and the ability to thrive under cultivation. Those listed are generally hardy in most of Pennsylvania and will bring beauty to any planting.

[Shown on the opposite page is the list of trees, shrubs and evergreens compiled by the author.]

ERNEST RUMSEY, who operated a landscape and maintenance business at Montour Falls, N. Y., died there February 15.

DONALD O. McLEOD, J-9 College road, Durham, N. H., will start a nursery and landscape business at Concord, N. H., this spring.

HARVEY H. ORNDORFF, a graduate in horticulture from the University of Illinois, Urbana, is planting Christmas tree seedlings on his new 80-acre wholesale nursery at 160 Bradwell road, Barrington, Ill.

Address, "Trees, Shrubs and Evergreens for the Beginning Nurseryman," given by Robert P. Meahl, professor of ornamental horticulture, the Pennsylvania State University, University Park, at the annual nurserymen's conference held at the university February 19 to 21.

Plant List for Nurserymen

LARGE TREES

Group A

Acer rubrum—Red maple
Acer saccharum—Sugar maple
Gleditsia triacanthos inermis—Thornless honey locust—or *Gleditsia triacanthos inermis*, form—Moraine honey locust
Liquidambar styraciflua—Sweet gum
Quercus borealis—Red oak
Quercus palustris—Pin oak

Group B

Acer saccharum monumentale—Sentry sugar maple
Betula papyrifera—Paper birch
Betula pendula—European birch
Betula pendula laciniata—Cut-leaved European birch
Fagus sylvatica—European beech
Fagus sylvatica heterophylla—Fern-leaved European beech
Fagus sylvatica purpurea—Purple European beech
Nyssa sylvatica—Black tupelo
Phellodendron amurense—Amur cork tree
Quercus coccinea—Scarlet oak
Quercus imbricaria—Shingle oak
Quercus robur fastigiata—Upright English oak
Tilia cordata—Little-leaved European linden
Zelkova serrata—Japanese zelkova

SMALL TREES

Group A

Acer palmatum atropurpureum—Blood-leaved Japanese maple
Cercis canadensis—Eastern redbud
Cornus florida—Flowering dogwood
Cornus florida rubra—Pink-flowering dogwood
Crataegus phaenopyrum—Washington hawthorn
Laburnum vossii
Magnolia soulangeana lennei—Lenne magnolia
Magnolia stellata—Star magnolia
Magnolia stellata rosea—Pink star magnolia
Malus arnoldiana—Arnold crab apple
Malus atrosanguinea—Carmine crab apple
Malus halliana parkmani—Parkman crab apple
Malus purpurea eleyi—Eley crab apple
Malus sargentii—Sargent crab apple
Prunus serrulata—James H. Veitch
Prunus subhirtella pendula—Weeping Higan cherry
Syringa amurensis japonica—Japanese tree lilac

Group B

Acer ginnala—Amur maple
Amelanchier canadensis—Shadblow serviceberry
Amelanchier laevis—Allegheny serviceberry
Cercidiphyllum japonicum—Katsura tree
Chionanthus virginicus—White fringe tree
Cornus kousa—Kousa dogwood
Cornus mas—Cornelian cherry dogwood
Koeleria paniculata—Panicle golden-rain tree
Malus sp.
Oxydendron arboreum—Sourwood
Photinia villosa—Oriental photinia
Sorbus aucuparia—European mountain ash

VINES AND GROUND COVERS

Euonymus fortunei coloratus—Purple-leaved winter creeper

Euonymus fortunei vegetus—Big-leaved winter creeper
Hedera helix baltica—Baltic English ivy
Jasminum nudiflorum—Winter jasmine
Lonicera japonica halliana—Hall's Japanese creeper
Pachysandra terminalis
Vinca minor bowlesii—Bowles' vinca
Wistaria floribunda—Japanese wistaria

TALL SHRUBS

Group A

Kolkwitzia amabilis—Beautybush
Ligustrum amurense—Amur privet
Lonicera korolkowi—Blue-leaved honeysuckle
Syringa chinensis—Chinese lilac
Syringa vulgaris (selected)
Viburnum prunifolium—Blackhaw viburnum
Viburnum sieboldii—Siebold viburnum

Group B

Enkianthus campanulatus—Red-veined enkianthus
Euonymus europaeus—European euonymus
Hibiscus syriacus—Shrub althaea
Lindera benzoin—Spicebush
Lonicera maackii podocarpa—Late honeysuckle
Viburnum dentatum—Arrowwood viburnum
Viburnum trilobum—American cranberry bush

MEDIUM SHRUBS

Group A

Azalea schlippenbachii—Royal azalea
Berberis mentenensis—Mentor barberry
Berberis thunbergii—Japanese barberry
Chaenomeles lagenaria—Flowering quince (selected)
Euonymus alatus—Winged euonymus
Forsythia intermedia spectabilis—Showy border forsythia
Forsythia, variety—Lynwood Gold
Forsythia, variety—Spring Glory
Myrica pensylvanica—Northern bayberry
Philadelphus virginialis—Virginal mock orange
Syringa microphylla—Little-leaved lilac
Viburnum dilatatum—Linden viburnum
Viburnum tomentosum mariesii—Maries' doublefile viburnum

Group B

Aronia arbutifolia—Red chokeberry
Clethra alnifolia—Summersweet
Clethra alnifolia rosea—Pink summersweet
Cotoneaster lucida—Hedge cotoneaster
Hamamelis vernalis—Vernal witch hazel
Ilex verticillata—Winterberry
Lonicera fragrantissima—Winter honeysuckle
Lonicera morrowii—Morrow honeysuckle
Rosa hugonis—Father Hugo rose
Spiraea vanhouttei—Van Houtte spiraea
Symplocos paniculata—Sapphireberry sweetleaf
Viburnum setigerum—Tea viburnum
Viburnum tomentosum sterile—Japanese snowball

SMALL SHRUBS

Group A

Abelia grandiflora—Glossy abelia
Azalea mollis—Chinese azalea
Cotoneaster horizontalis—Rockspray cotoneaster
Euonymus alatus compactus—Dwarf winged euonymus

Hydrangea quercifolia—Oak-leaved hydrangea
Ligustrum obtusifolium regelianum—Regel privet
Spiraea bumalda—Anthony Waterer
Viburnum burkwoodii—Burkwood viburnum
Viburnum carlesii—Fragrant viburnum
Viburnum carlcephalum
Weigela—Bristol Ruby

Group B

Berberis thunbergii minor—Box-leaved Japanese barberry
Calycanthus floridus—Common sweet shrub
Chaenomeles japonica—Japanese flowering quince
Cotoneaster apiculata—Cranberry cotoneaster
Daphne mezereum—February daphne
Elsholtzia stauntonii—Staunton elsholtzia
Symphoricarpos chenaultii—Chenault corallberry

BROAD-LEAVED EVERGREENS

Large shrubs:

Ilex opaca—American holly
Pyracantha coccinea lalandi—Laland fire thorn
Rhododendron maximum—Rosebay rhododendron

Medium shrubs:

Berberis julianae—Wintergreen barberry
Euonymus kiautschovicus—Spreading euonymus
Ilex crenata microphylla—Little-leaved Japanese holly
Kalmia latifolia—Mountain laurel
Pieris japonica—Japanese pieris
Rhododendron (selected varieties)

Small shrubs:

Azaleas (selected varieties)
Ilex crenata convexa—Box-leaved Japanese holly
Ilex crenata Green Island—Green Island holly
Leucothoe catesbaei—Drooping leucothoe
Mahonia aquifolium—Oregon hollygrape
Rhododendron carolinianum—Carolina rhododendron
Rhododendron catawbiense—Catawba rhododendron

NARROW-LEAVED EVERGREENS

Trees:

Abies concolor—White fir
Picea abies—Norway spruce
Picea pungens argentea—Koster blue spruce
Pinus nigra—Austrian pine
Pinus strobus—Eastern white pine
Pseudotsuga taxifolia—Douglas fir
Tsuga canadensis—Canada hemlock

Small trees or large shrubs:

Juniperus virginiana canaerti—Canaert red cedar
Juniperus virginiana glauca—Silver red cedar
Taxus cuspidata capitata—Upright Japanese yew
Thuja occidentalis fastigiata—Pyramidal arborvitae

Medium shrubs:

Juniperus chinensis pfitzeriana—Pfitzer juniper
Taxus cuspidata—Spreading Japanese yew
Taxus media hicksii—Hicks' yew
Small shrubs:
Juniperus chinensis sargentii—Sargent juniper
Juniperus horizontalis plumosa—Andorra juniper
Pinus mugo mughus—Mugho pine
Taxus cuspidata nana—Dwarf Japanese yew

Southern Shade Tree Group Hears Talks and Elects Officers

By H. C. Scott

The Southern chapter of the National Shade Tree Conference held a regional meeting March 10 to 13 in the Shamrock-Hilton hotel, Houston, Tex. Officers elected for 1957-58 were O. J. Andersen, Houston, president; Alden Eaton, Williamsburg, Va., vice-president, and T. J. Cobb, Shelby, N. C., secretary-treasurer. The next meeting will be held at Asheville, N. C., at the same time as the national meeting in 1958.

Of the several discussions that highlighted the Houston session, the first was "Turf under Shade Trees," by Dr. J. C. Harper, agronomist, Toro Mfg. Co., Minneapolis, Minn. Dr. Harper stated that turf can be grown in shade if the basic requirements are understood. Insufficient water may be a limiting factor, particularly when the competitive fibrous roots of shallow-rooted trees are near the soil surface. He stated that the average tree, in producing 100 pounds of wood (50 per cent or more is water) will take up and transpire 100,000 pounds of water.

Closely tied with the competition for water is the competition for plant nutrients, which have to be in solution. A single tree may remove as much as 50 pounds of nitrogen, five pounds of phosphoric acid and six pounds of potash a year.

Grass for Shade

The process of photosynthesis, without which plants cannot survive, depends upon the presence of light.

Because of defoliation by mowing and low light intensity under trees, competition for light also becomes a limiting factor in producing good turf in shady areas. Therefore, in setting up a turf maintenance program, one should alleviate or eliminate the competition for water, nutrients and light. This task calls for a careful selection of the most shade-tolerant species for the areas in question. The fescues are in this class, as is Kentucky bluegrass, throughout the upper south. In the midsouth the zoysias are effective, and in the lower south St. Augustine grass is the best species to consider.

Next to plan is a soil fertilization program for the turf and the trees as well. The lawn areas should receive two or three times the normal rate of fertilization. Lawn applications can be made three to six times annually and should supply 12 to 16 pounds of nitrogen per year, of which 75 per cent should be from organic sources.

Tree Feeding

Tree feeding is more effective when the material is injected into the soil, and a 10-6-4 formula is good, in general. Closely associated with fertilization is the maintenance of the pH that is optimum for the grass in question.

The lawn area should be aerated frequently, to allow rapid penetration of water and prevent runoff.

[Continued on page 117]

INDIANA DESIGN WINNER

Winner of one of the American Association of Nurserymen's "Plant America" awards for 1957, the landscape design for the new Parkview Memorial hospital, Fort Wayne, Ind., pictured here, was created and executed by the Pion Landscape Co., Fort Wayne.

Taking as its keynote the contemporary character of the hospital design, the landscape plan is simple and functional, relying heavily on horizontal lines. This is most evident in the long, low hedge bordering the hospital's rectangular drive, which echoes the lines of the building's wings and simplifies maintenance with its convenient height. Other plantings mark corner locations and effect some screening results.

Another important horizontal element is seen in the built-in planters footing the first floor windows along the length of the two diverging wings. These planters give a unity to the two sections of the building in the repeated low line of finished evergreens, punctuated with slightly higher-growing varieties, to avoid monotony and to establish a relation to the vertical pillars behind them.

Shade trees, rising from the restful expanses of lawn, are planned to serve as a sound baffle. They are restricted to smaller species to minimize maintenance problems.

Bulbs and annuals, providing color in season, are concentrated near the entrance in formal groups, at the head of the lawn island and in beds under the overhang. This concentration not only keeps flower cultivation to a restricted area, but also helps to dramatize the central tower, focal point of the building architecture.



Landscaping for a Hospital of Contemporary Design Planned and Executed by Pion Landscape Co., Fort Wayne, Ind.

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APRIL 15, 1957

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Fast, lasting vigor for iron-hungry plants with VERSENOL IRON CHELATE

Plants that lag for lack of iron can be transformed into "pick of the crop" specimens with VERSENOL® IRON CHELATE.

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- Weather-resistant finish lasts an entire season.
- Includes AARS Winners and the most wanted Popular and Patented Hybrid Teas, Babies, Climbers and Floribundas. See complete list at right.

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LIST OF ROSE PICTURES AVAILABLE

Nonpatented Hybrid Teas

American Beauty
Angel's Mateu
Autumn
Better Times
Betty Uprichard
Caledonia
Christopher Stone
Condesa de Santiago
Countess Vandal
Crimson Glory
Dainty Bess
Duquesa de Penaranda
Eclipse
Edith Nellie Perkins
Editor McFarland
Ena Harkness
Etoile de Hollande
Frau Karl Druschki
Girona
Joanna Hill
K. A. Viktoria
Lulu
Margaret McGredy
Mme. Edouard Herriot
Mme. Jules Bouche
Mrs. Charles Bell
Mrs. E. P. Thom
Mrs. P. S. du Pont
Mrs. Sam McGredy
McGredy's Ivory
McGredy's Scarlet
McGredy's Yellow
Nigger Boy
Picture
Pink Dawn
Poinsettia
President Hoover
Radiance
Red Radiance
Shining Star
Signora
Sister Therese
Snowbird
Sterling
Talisman
Texas Centennial
The Doctor
Will Rogers

Nonpatented Floribundas

Alain
Cecile Brunner
Dagmar Spath
Else Poulsen
Eutin
Floradora
Frensham
Garnette
Improved Lafayette
Pink Gruss an Aachen
Poulsen's Bedder
Red Ripples
Rose Elfe
Royal Chinook
Snowbank
The Fairy
Cl. White Dawn

Nonpatented Climbers

Cl. American Beauty
Cl. New Blaze
Cl. Cecile Brunner
Cl. City of York
Cl. Dainty Bess
Cl. Doublebloss
Cl. New Dawn
Cl. Paul's Lemon Pillar

Patented Hybrid Teas

Blanche Mallerin
Buccaneer
Burnaby

Patented Hybrid Teas, cont'd

Capistrano
Charlotte Armstrong
Chrysler Imperial
Dean Collins
Diamond Jubilee
First Love
Fort Knox
Fort Vancouver
Forty-Niner
Fred Edmunds
Fred Howard
Golden Masterpiece
Golden Scepter
Good News
Grande Duchesse Charlotte
Heart's Desire
Helen Traubel
Horace McFarland
K. T. Marshall
Love Song
Lowell Thomas
Mirandy
Mme. Henri Guillot
Mojave
Montezuma
New Yorker
Nocturne
Peace
Pink Favorite
President Eisenhower
Queen Elizabeth
Rex Anderson
Roundelay
Rubaiyat
Saturnia
Sleigh Bells
Sun Valley Rose
Sutter's Gold
Tallyho
Tiffany
White Swan

Patented Floribundas

Amy
Baby Blaze
Betty Prior
Carrousel
Charlie McCarthy
Cororico
Circus
Crimson Rosette
Donald Prior
Fashion
Geranium Red
Glacier
Goldilocks
Independence
Irene of Denmark
Jimmy Cricket
Lilabet
Ma Perkins
Masquerade
Pink Rosette
Pinkie
Pinocchio
Red Favorite
Red Pinocchio
Spartan
Vogue
World's Fair

Patented and Novelty Climbers

Cl. Aloha
Cl. Coral Dawn
Cl. Crimson Glory
Cl. Dr. J. H. Nicolas
Cl. Dream Girl
Cl. Floradora
Cl. Gladiator
Cl. Goldilocks
Cl. High Noon
Cl. Parade
Cl. Pinocchio

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Patented Hybrid Teas

Grade 1 1/2	Variety
•	Apricot Queen
•	Babe Ruth
•	Burnaby
•	Capistrano
•	Damon Runyon
•	Diamond Jubilee
•	Dr. Debat
•	Eden Rose
•	Edith Willkie
•	Fred Howard
•	Golden Anniversary
•	Gordon Eddie
•	Grande Duchesse Charlotte
•	Happiness
•	Heart's Desire
•	Horace McFarland
•	Mme. Chiang Kai-Shek
•	Orange Sweetheart
•	Queen Elizabeth
•	Remembrance
•	San Fernando
•	Sleigh Bells
•	Sun Valley Rose
•	Suzon Lotthe
•	Symphonie
•	The Duke
•	Tiffany
•	Tom Breneman

Patented Floribundas

- Amy
- Baby Blaze
- Carrousel
- Cocorico

Patented Floribundas

(Continued)

Grade 1 1/2	Variety
•	Crimson Rosette
•	Donald Prior
•	Fashion
•	Geranium Red
•	Glacier
•	Goldilocks
•	Independence
•	Irene of Denmark
•	Jiminy Cricket
•	Lilibet
•	Mandarin
•	Ma Perkins
•	Pink Bountiful
•	Pink Rosette
•	Red Favorite
•	Red Pinocchio
•	Sister Kenny
•	Smiles
•	Vogue
•	World's Fair

Patented Climbers

- Cl. Chrysler Imperial
- Cl. Dr. J. H. Nicolas
- Cl. Dream Girl
- Cl. Floradora
- Cl. Gladiator
- Cl. Goldilocks
- Cl. Heart's Desire
- Cl. King Midas
- Cl. Mme. H. Guillot
- Cl. Pink Cloud
- Cl. Pinocchio
- Cl. Summer Snow

Nonpatented Climbers

Grade 1 1/2	Variety
•	Cl. Blaze
•	Cl. City of York
•	Cl. Doubloons
•	Cl. Inspiration
•	Cl. Mary Wallace
•	Cl. Mrs. E. P. Thom
•	Cl. New Blaze
•	Cl. New Dawn
•	Cl. Paul's Lemon Pillar
•	Cl. Reveil De Jonnias
•	Cl. Silver Moon
•	Cl. Snowbird
•	Cl. Talisman
•	Cl. Temptation
•	Cl. White Dawn
•	Cl. Zenith

Nonpatented Babies

- Dick Koster
- Gloria Mundi
- Margo Koster

Nonpatented Babies

(Continued)

Grade 1 1/2	Variety
•	Mother's Day
•	Orange Triumphe
•	Triomphe Orleannais

Nonpatented Floribundas

- Alain
- Charlie McCarthy
- Dagmar Spath
- Else Poulsen
- Ernie Grootendorst
- Eutin
- Floradora
- Frensham
- Garnette
- Improved Lafayette
- Pink Gruss an Aachen
- Poulsen's Bedder
- Red Ripples
- Royal Chinook
- Snowbank
- The Fairy

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Buxus sempervirens
Cotoneaster decora lactea
Cotoneaster horizontalis
 Laurel Cherry
Laurocerasus officinalis
 (English Laurel)
Elaeagnus fruitlandi
Elaeagnus simoni
Euonymus, small-leaved
Euonymus coloratus
Euonymus patens
Ilex crenata Biloxi
Ilex crenata convexa
Ilex rotundifolia
Ilex cornuta burfordi
Ilex Foster's Hybrid No. 2
Ilex cornuta femina
Ilex glabra
Ilex opaca, seedlings
Ilex opaca Arden
Ilex opaca Croonenburg
Ilex opaca East Palatka
Ilex opaca howardi
Ilex opaca Hume No. 2
Ilex vomitoria
Ilex vomitoria, dwarf
Jasminum floridum
Ligustrum lucidum nana
Ligustrum Suwannee River
Loropetalum chinense
Magnolia glauca
Magnolia grandiflora
Nandina domestica
Photinia serrulata
Viburnum burkwoodi

DECIDUOUS TREES

Cornus florida
Cornus florida rubra
Euonymus alatus compactus
Magnolia nigra
Magnolia rustica rubra
Magnolia soulangeana

CONIFERS

Arborvitae, orientalis Baker
Arborvitae, orientalis Blue Cone
Arborvitae, orientalis Bonita
Arborvitae, orientalis excelsa
Arborvitae, orientalis newarki
Arborvitae, fruitlandi
Arborvitae, American globosa
Arborvitae, American globosa compacta erecta
Arborvitae, Pyramidal American
Arborvitae, Dark Green American
Cypress, Blue Lawson
Juniper, Andorra
Juniper, chinensis procumbens
Juniper, excelsa stricta
Juniper, communis fastigiata
Juniper, hetzi glauca
Juniper, pfitzeriana
Juniper, pfitzeriana compacta
Juniper, pfitzeriana nana
Juniper, virginiana repandens
Juniper, sargentii
Juniper, sabina
Juniper, chinensis Sylvestris
Juniper, sabina vonehron
Juniper, sabina vonehron, sheared globes
Juniper, sabina vonehron, sheared pyramids
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COMING EVENTS

MEETING CALENDAR

May 9 to 11—Western chapter, National Shade Tree Conference, convention, Ahwahnee hotel, Yosemite National park, Calif.

May 23 to 25—Florida Nurserymen and Growers Association, annual convention, Golden Gate hotel, Miami Beach, Fla.

May 26 to 28—Alabama Nurserymen's Association, annual convention, Dinkler-Tutwiler hotel, Birmingham, Ala.

May 27 to 29—Texas Association of Nurserymen, annual short course, Texas A. and M. College, College Station, Tex.

June 2 to 4—Georgia State Nurserymen's Association, annual meeting and short course, Radium Springs, Albany, Ga.

June 3 to 5—Louisiana nurserymen's short course, Southwestern Louisiana Institute, Lafayette, La.

June 5 and 6—California Association of Nurserymen, ninth annual refresher course, ornamental horticulture unit, California State Polytechnic College, San Luis Obispo, Calif.

July 7 to 9—Virginia Nurserymen's Association, summer meeting, Virginia Polytechnic Institute, Blacksburg.

July 21 to 25—American Association of Nurserymen, annual convention, Hotel Fontainebleau, Miami Beach, Fla.

TEXAS COURSE PLANNED

B. R. Fullingim, executive secretary of the Texas Association of Nurserymen, announces that May 27 to 29 have been set as the dates for the annual short course held by the association in cooperation with the Agricultural and Mechanical College of Texas. Sessions will be held in the memorial student center on the campus at College Station, Tex.

GEORGIA EVENTS MERGED

Combining its annual meeting and short course this year for the convenience of its members, the Georgia State Nurserymen's Association has named Radium Springs, Albany, the location for the double gathering, which will take place June 2 to 4. The program is being completed by Willette E. Hume, executive secretary of the association, and Dr. F. E. Johnstone, Jr., department of horticulture, University of Georgia, Athens.

OPENING of the Roydale Nursery, a retail nursery and garden center at 4121 Wyoga Lake road, Cuyahoga Falls, O., launches a second enterprise for owner William Erdos, who continues to operate the Erdos Greenhouse & Nursery, Kent, O.



Nelson Nurseries, Opa Locka, Fla.

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SARAN SHADE CLOTH

Lowest annual cost Widest range of shading

Immediate shipment of 6 & 20 ft. widths
in all lengths; special widths and
fabricated covers available on request.

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Please send me a FREE sample and further information on
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—says Charles Crum, Gen. Mgr., Rosedale's Nurseries



REYNOLDS ALUMIPAKS*

8¼" x 4¼" x 2" deep, also 8½" x 4½" x 2½" deep, both with rounded corners. Hold a number of plants... protect them without repotting from seed flat to retail sale. Standard in bright, sparkling aluminum. Colors available on quantity order.



REYNOLDS ALUMIPOTS*

Approximately 1/20th the weight of clay. Broad base design minimizes tipping. Require less water and fertilizer, resulting in great economies. Available in brilliant, sales-stimulating silver, green, gold, blue and red. Sizes 2¼", 3", 4" and 4" tub.

*Trademarks, Reynolds Metals Company

APRIL 15, 1957

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December 5, 1956

Mr. David P. Reynolds
Vice President, Sales
Reynolds Metals Company,
Louisville 1, Kentucky

Dear Mr. Reynolds:

It isn't often that we write a complimentary letter on such a commonplace subject as plant containers. But your convenient new Reynolds Alumipaks are something else again — and far from the ordinary. In our business, the cutting of plants from flats, wrapping and handling, consumes valuable time. And there's the danger of plant damage when the customer transplants at home.

But now you folks come up with a brand-new kind of container that eliminates all these problems. In fact, Alumipaks encourage customers to wait on themselves. They prompt take-with sales right in the containers. It saves our time — and the customer can use the attractive Alumipaks just "as is" without transplanting.

They reduce constant watering and repotting for us too. To top it off, Alumipaks are real merchandisers as well. Our customers like the convenience of these lightweight, nonbreakable containers. They've helped increase our sales greatly, consequently our profits are up!

We enthusiastically recommend that anyone in the retail nursery business order their plants in bright new Alumipaks.

Sincerely,

Charles S. Crum
Charles Crum, General Manager
Rosedale's Nurseries, Inc.

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PLANTS

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Distributor warehouse stocks throughout the country.

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We've got 'em by the thousand—a picture to see. You buy 'em by the ten, the hundred or the thousand—how happy you'll be. If you want to pick them up, let us know beforehand so you won't be kept waiting. 2 1/4-in. pots packed for shipment weigh only about 30 lbs.—a flat about 20 lbs.

Ilex aquifolium, female (English Holly)

 *Flat of 35, R.C., T., **\$14.00**
Ilex aquifolium, male (English Holly)

 *Flat of 35, R.C., T., **\$14.00**

	Each Per 10	Each Per 100	Each Per 1000
Ilex aquifolium pyramidalis, female 2 1/4-in. pot, R.C., T., \$0.55	\$0.45		

Ilex crenata (Japanese Holly) 4 to 6 ins., R.C., T., .12	.09	\$0.00 1/2	
*Flat of 60, R.C., T., \$10.50			

Ilex crenata convexa (bullata) 4 to 6 ins., R.C., T., .12	.09	.00 1/2	
6 to 8 ins., R.C., T., .13	.10	.09 1/2	
*Flat of 60, R.C., T., \$10.50 , 5 and up, \$9.50			
2 1/4-in. pot., 5 to 7 ins., R.C., T., .25	.20	.18	

Ilex crenata Green-Thumb, new, outstanding 2 1/4-in. pot, R.C., T., .42 1/2	.35		
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Ilex crenata helleri, low, dwarf, compact 2 to 4 ins., R.C., T., .13	.10	.09 1/2	
*Flat of 75, R.C., T., \$13.00 , 5 and up, \$12.00			
2 1/4-in. pot, 2 to 3 ins., R.C., T., .25	.20	.18	
1-yr., 3-in. pot, 3 to 5 ins., heavy .45	.37 1/2	.35	
2-yr., 3-in. pot, 4 to 6 ins., heavy .55	.47 1/2	.45	

Ilex crenata latifolia, tall, big-leaved 4 to 6 ins., R.C., T., .12	.09	.00 1/2	
6 to 8 ins., R.C., T., .13	.10		
*Flat of 60, R.C., T., \$10.50 , 5 and up, \$9.50			
1-yr., 4 to 8 ins., X., .22 1/2	.17 1/2	.16	
2 1/4-in. pots, R.C., T., 5 to 7 ins., .25	.20	.18	
2-yr., 6 to 9 ins., X., .35	.30		
3-in. pot, 8 to 10 ins., heavy .45	.37 1/2	.35	
4-in. (No. 0) Menne- pot, 9 to 12 ins., .75	.60	.55	

Ilex crenata longifolia, tall, long-leaved 4 to 6 ins., R.C., T., .12	.09		
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Ilex crenata microphylla, little-leaved 4 to 6 ins., R.C., T., .12	.09	.00 1/2	
*Flat of 60, R.C., T., \$10.50 , 5 and up, \$9.50			
2 1/4-in. pot, 5 to 7 ins., R.C., T., .25	.20		

Ilex crenata microphylla—Continued

1-yr., 2 1/4-in. pot, 6 to 8 ins., \$0.30	\$0.25	\$0.22 1/2	
3-in. pot, 6 to 9 ins., heavy .45	.37 1/2	.35	

Ilex crenata rotundifolia, large, round- leaved 4 to 6 ins., R.C., T., .12	.09	.00 1/2	
6 to 8 ins., R.C., T., .13	.10	.09 1/2	
1-yr., R.C., 4 to 6 ins., heavy .15	.12 1/2	.11 1/2	
1-yr., R.C., 6 to 8 ins., heavy .17 1/2	.15	.13 1/2	

*Flat of 60, R.C., T., \$10.50 , 5 and up, \$9.50			
1-yr., 4 to 8 ins., X., .22 1/2	.17 1/2		
2-yr., 6 to 9 ins., X., .35	.30	.27 1/2	
2-yr., 9 to 12 ins., X., .40	.35	.32 1/2	
3-in. pot, 8 to 10 ins., heavy .45	.37 1/2	.35	
4-in. (No. 0) Menne- pot, 8 to 12 ins., .75	.60	.55	
6 to 9 ins., XX, field, heavy .60	.50		
9 to 12 ins., XX, field, heavy .75	.60		

Ilex opaca, female (American Holly)

*Flat of 35 R.C., T., \$14.00 , 10 and up, \$13.00			
2 1/4-in. pot, R.C., T., .55	.45	.40	

Ilex opaca mascula (Male American Holly)

*Flat of 35, R.C., T., \$14.00 , 10 and up, \$13.00			
2 1/4-in. pot, R.C., T., .55	.45		
3-in. pot, 1-yr., .90	.75		

**Ilex opaca pyramidalis, female, slender,
pyramidal.** Excellent for the small
home or estate. Bright red berries,
curly leaves, well-spiked. Hardy
in northern New York and
central Illinois.

*Flat of 35, R.C., T., \$14.00 , 10 and up, \$13.00			
2 1/4-in. pot, R.C., T., .55	.45	.40	
3 1/2-in. pot, 6 to 9 ins., R.C., TT., 1.00			

Ilex opaca rotundifolia, round-leaved 2 1/4-in. pot, R.C., T., .55	.45		
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Ilex opaca xanthocarpa, yellow berry 2 1/4-in. pot, R.C., T., .55	.45		
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TERMS: Cash with order, free packing. Regular terms to those with established credit.

*Flats safely shipped via railway express.

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NESHANIC STATION, N. J.

COVER ILLUSTRATION

Parrotia Persica

Parrotia persica, a species of the family hamamelidaceae, named for F. W. Parrot, German naturalist, is a small tree or arborescent shrub that is found native only in Persia. The flowers are insignificant and apetalous, and they appear, before the leaves unfold, in dense heads surrounded by rusty-hairy bracts. In cultivation, usually of upright-branching habit, with several trunk stems, it is more small tree than shrub. The bark on mature trunks is smooth and mottled, like that of the sycamore, and the leaves are similar to those of the witch-hazel. *Parrotia* is hardy and has been used from zone 3 southward.

While there are not many places ordinarily used for shrubby plant-



Foliage of *Parrotia Persica*

ings where so large a plant is desirable, *Parrotia persica* makes an eye-catching spot of pleasing color when grouped against an evergreen background or screen planting where its size, often over 25 feet, is not objectionable. There are few shrubs having fall color equaling that of *parrotia*, and its scarlet, orange and yellow autumn foliage rivals that of the most attractive sugar maples.

The ultimate size of this plant eliminates its use on homesites of the usual limited area, but in the landscaping of more extensive areas, such as large estates and parks, it makes an agreeable change from the more commonly planted shrubs.

Gavaghan & Dobson, Rochester,

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Makes Plants Grow Faster and Bigger Than Ever Before Possible

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1. Plants grow faster, mature earlier—those requiring "long-days" for blooming, flower early.
2. Size and bulk are greatly increased.
3. Blooms are heavier, and yields are higher.
4. Grasses grow faster, more luxuriantly than with fertilizer alone.
5. Flowering time is advanced—certain biennials bloom in the first year, some annuals bloom as much as five weeks earlier.
6. Seeds are produced earlier, in as little time as six months in such plants as carrots and head lettuce.
7. Dormancy is broken. The requirements for rest period, cold treatment, or variable day length are often by-passed completely.
8. Plants are not set back after transplanting.
9. Fruit set is improved.

GIBREL is the first of the gibberellins to be produced on a commercial scale. It is ready for immediate use in your formulations. Completely unrelated to fertilizers or nutrients, this Merck-developed gibberellin salt is making headlines with its indicated uses in flowers, ornamentals, turf grasses, and trees. Extensive tests indicate phenomenal results in food and forage crops. Chronic toxicity studies, however, have not yet been completed. Therefore, recommendations for use on such crops must await final results of these tests.

GIBREL for Higher Profits

You can start building profits right now with products containing GIBREL. And you can count on Merck—the first basic producer of a practical gibberellin—to assist you with technical and marketing problems.

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Merck promotion is pre-selling GIBREL to your customers through a heavy national advertising and promotion campaign. In addition, Merck research is continuing its program to get additional uses for GIBREL. As always, Merck technical service is prepared to aid you in developing your new product, or in adding GIBREL as an ingredient to your present formulation.

GIBREL Easily Formulated

You may use GIBREL in aerosols, powders, and other dry formulations. GIBREL may be present as the only active ingredient or combined with soluble nutrients. Dry GIBREL is stable, readily soluble in cold water, and noncorrosive.

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Merck & Co., Inc., Chemical Division, Rahway, N. J.

*GIBREL is the trademark of Merck & Co., Inc. for its plant growth substance.

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CHEMICAL DIVISION
RAHWAY, NEW JERSEY

DO YOU? WANT THE WORLD

IN—your garden
—your nursery
—your display grounds
—your landscape plantings

FOR—interest
—variation
—beauty
—utility

DO YOU?

Have the joy and satisfaction of growing evergreens from all over the world.

EXOTICS FROM FAR COUNTRIES
NATIVES FROM OUR OWN HOMELAND

HOW ABOUT THESE?

SHERWOOD PAYS THE COST

The prices here quoted include expert packing and delivery of lining-out stock to you, all shipping charges prepaid to any point in the United States, Canada and Alaska. Lining-out stock is marked with an asterisk*. The prices on B.R. stock are F.O.B. Portland. No packing charge on any stock.

25 at 100 rate

250 at 1000 rate

From Chinese Specie

Abelia (Edward Goucher)

Choice upright, abundant flowers.

*6 to 12 ins., once transplanted \$14.00 \$112.00

From Western America

Abies concolor (White Fir)

Symmetrical growth and beautiful bluish foliage.

*3 to 6 ins., not transplanted \$10.00 \$ 80.00

From High Western Mountains

Abies lasiocarpa (Alpine Fir)

Slender picturesque conifer, silvery tinged foliage.

*3 to 6 ins., once transplanted \$11.00 \$ 88.00

From Europe in Shady Places

Ajuga reptans rubra (Purple-leaved Bugle)

Rich green, slightly bronzed foliage, blue flower.

*1-yr. plants \$ 8.00 \$ 64.00

From Asia

Aucuba japonica variegata (Golddust Aucuba) (Female)

Leaves large, glossy, splashed with gold.

*6 to 9 ins., once transplanted \$18.00 \$144.00

From Oregon

SHERWOOD AZALEAS

(Originated and introduced by Sherwood Nursery Co.)
Wonderful dwarf evergreens. Hardy and compact. We have never been able to keep up with the demand for these three beauties. We are proud of them. They are tops.

Sherwood Corise Azalea

Flowers bright clear corise, brilliantly lovely.

*3 to 6 ins., once transplanted \$15.00 \$120.00

Sherwood Orchid Azalea

Clear lavender with speckled throat.

*1 to 3 ins., once transplanted \$ 12.00 \$ 96.00

12 to 15 ins., twice transp., B&B or B.R.. 102.00

Sherwood Red Azalea

The most brilliant blood red imaginable.

*6 to 9 ins., once transplanted \$20.00 \$160.00

From South America

Berberis darwini (Darwin Barberry)

Foliage is deep green, orange-colored flowers.

*6 to 9 ins., once transplanted \$18.00 \$144.00

From South American Specie

Berberis dulcis nana

One of the best low hedge and border plants.

*1 to 3 ins., once transplanted \$12.00 \$ 96.00

From China

Berberis julianae (Wintergreen Barberry)

One of the best upright barberries.

*1 to 3 ins., once transplanted \$15.00 \$120.00

From South American Hybrid

Berberis stenophylla erwini (gracilis)

Low-growing, gracefully spreading shrub.

*1 to 3 ins., once transplanted \$15.00 \$120.00

From China

Berberis verruculosa

One of the hardiest and best of barberries.

*1 to 3 ins., once transplanted \$15.00 \$120.00

From the Oriental Specie

Camellia japonica (Cheerful)

Double, perfectly shaped and bright red.

*1 to 3 ins., once transplanted \$16.00 \$128.00

Camellia japonica (Pink Perfection)

Double clear pink flowers, perfectly formed.

*1 to 3 ins., once transplanted \$16.00 \$128.00

DID YOU KNOW?

That there are over 170 species of barberry in Africa, Europe, Asia and the Americas.

From the Oregon Specie

Chamaecyparis lawsoniana minima glauca (Little Blue Cypress)

A beautiful true dwarf, dark and dense, bluish-green foliage.

*4 to 6 ins., twice transplanted \$35.00 \$280.00

From the Oregon Specie

Chamaecyparis lawsoniana stewartii (Winter Golden Cypress)

Stately in habit, with green and gold foliage.

18 to 24 ins., twice transp., B.R., near specimen... \$65.00

From the Japanese Specie

Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress)

Heavy type. Velvety, dark golden filaments.

*6 to 9 ins., once transplanted \$20.00 \$160.00

From Goodness Knows Where

Cytisus purgens (Provence Broom)

Hardy dwarf, compact globe, very fine.

*12 to 18 ins., once transplanted \$20.00 \$160.00

From Europe

Daphne mezereum rubra (Red February Daphne)

Delightfully fragrant, lilac-purple flowers.

*3 to 6 ins., not transplanted \$13.00 \$104.00

From Alps Specie

Erica carnea sherwoodii (Sherwood Creeping Heath)

Low-growing. Flowers bright carmine-red.

*3 to 6 ins., once transplanted \$12.00 \$ 96.00

Per 100 Per 1000

DID YOU KNOW?

That on the moors the principal food of sheep and game birds is heather.

From the Japanese Specie

Euonymus radicans coloratus (Purple-leaved Winter Creeper)
A trailing evergreen, very hardy.

*18 to 24 ins., once transplanted\$22.00 \$176.00

From Eastern North America

Gaultheria procumbens (Wintergreen)
Fine foliage, pink flowers, red berries, superb.

*2-yr., once transplanted\$10.00 \$ 80.00

From European and Asiatic Specie

Hedera helix arborescens (Bush English Ivy)
Ivy in bush form.

*3 to 6 ins., once transplanted\$15.00 \$120.00

From Our Rocky Mountains

Juniperus scopulorum (Rocky Mountain Juniper)

The well-known and justly popular western juniper.

*3 to 6 ins., not transplanted\$10.00 \$ 80.00

From Eastern North America

Juniperus virginiana (Red Cedar)

A compact pyramidal tree of great hardiness.

*3 to 6 ins., not transplanted\$ 9.00 \$ 72.00

From Eastern North America

Kalmia latifolia (Mountain Laurel)

Compact shrub, bouquets of lovely flowers.

*3 to 6 ins., once transplanted\$15.00 \$120.00

From the Pacific Northwest

Mahonia aquifolium (Oregon Grape)

Attractive in foliage, flower and fruit.

*3 to 6 ins., not transplanted\$10.00 \$ 80.00

From the Pacific Northwest

Mahonia nervosa (Long-leaved Holly Grape)

Plants grow 12 to 18 ins. tall, beautifully fernlike in form.

*3 to 6 ins., not transplanted\$10.00 \$ 80.00

From Japan

Pachysandra terminalis (Japanese Spurge)

Especially valuable as a ground cover.

*2-yr. plants\$10.00 \$ 80.00

From Western Mountains

Picea engelmanni (Engelmann Spruce)

Narrow pyramid, bluish-green to steel-blue foliage.

*6 to 9 ins., once transplanted\$11.00 \$ 88.00

From the European Specie

Picea excelsa pygmaea (Pygmy Spruce)

Exceedingly dense, dark green, dwarf conifer.

*1 to 3 ins., once transplanted\$15.00 \$120.00

From Oregon

Picea excelsa sherwoodi (Sherwood's

Multnomah Spruce)

A rugged appearance.

3 to 6 ins., once transplanted\$20.00 \$160.00

From South Dakota

Picea glauca densata (Black Hills Spruce)

A handsome, hardy tree of symmetrical habit.

*1 to 3 ins., not transplanted\$ 4.00 \$ 32.00

From Western Mountains

Picea pungens (Colorado Spruce) (Green)

Very handsome and very hardy.

3 to 6 ins., once transplanted\$11.00 \$ 88.00

From the Himalayan Mountains

Pinus griffithi (Griffith Pine)

Sometimes called the blue pine. Rare.

*6 to 9 ins., not transplanted\$11.00 \$ 88.00

From the West Coast

Pinus jeffreyi (Jeffrey's Pine)

Picturesque, spire-shaped conifer.

*9 to 12 ins., once transplanted\$18.00 \$144.00

From High European Mountains

Pinus mughus compacta (Mugho Pine)

A dense, stout, dwarf evergreen.

6 to 9 ins., twice transplanted, B.R., near specimen \$49.00

9 to 12 ins., twice transplanted, B.R., near specimen \$65.00

From the West

Pseudotsuga douglasii (Douglas Fir)

Colorado silver-gray strain, a truly stately tree.

12 to 18 ins., once transplanted, B.R.\$20.00 \$160.00

From Europe and Africa

Taxus baccata (English Yew)

This is the old favorite of English gardens.

12 to 15 ins., twice transp., B.R., hedge grade....\$61.00

DID YOU KNOW?

That *Taxus cuspidata* is really a geographical form of *Taxus baccata*.

From the European and African Specie

Taxus baccata fastigiata aurea (Golden Irish Yew)

Golden form of the well-known Irish Yew.

*6 to 9 ins., once transplanted\$24.00 \$192.00

From the Orient

Taxus cuspidata (Japanese Yew)

One of the most satisfactory of all dwarf evergreens.

*6 to 9 ins., twice transplanted\$24.00 \$192.00

From Eastern North America

Thuja occidentalis (American Arborvitae)

Compact narrow pyramid, justly esteemed.

18 to 24 ins., twice transplanted, B.R.,

hedge grade\$49.00

2 to 3 ft., twice transplanted, B.R.,

hedge grade\$73.00

3 to 4 ft., twice transplanted, B&B\$142.00

From the North American Specie

Thuja occidentalis nana (Little Globe Arborvitae)

Bright green foliage packed in heavy layers.

15 to 18 ins., three times transplanted, B&B\$122.00

From Eastern North America

Tsuga canadensis (Canada Hemlock)

Conifer of graceful, pleasing habit of growth.

*6 to 9 ins., not transplanted\$12.00 \$ 96.00

From the Cascade Mountains

Tsuga mertensiana (Mountain Hemlock)

Lovely either in groups or as specimen trees.

9 to 12 ins., once transplanted\$22.00 \$176.00

From Europe and North America

Veronica officinalis (Ground Speedwell)

Ground cover for shady places.

Rooted layers\$ 7.00 \$ 56.00



SHERWOOD NURSERY CO.

Evergreens - PROPAGATORS AND GROWERS

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(It contains complete descriptions.)

CORBETT, ORE.

Protect valuable nursery and
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MITES with ARAMITE!



Year after year, destructive mites cause browning and withering of shrubbery, flowers and shade trees, requiring frequent trimming and pruning and eventual replacement. *Now*, with Aramite, you can protect the beauty of these ornamentals and avoid considerable labor and replacement costs. And today's safest, strongest mite-killer costs very little. Aramite gives outstanding control of European Red Mite, Spruce Mite, Two-Spotted Mite and most other mite species. Compatible with most insect and fungus-killing chemicals, with longer residual. *Non-hazardous to humans and animals.*

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producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.

N. Y., made the photograph reproduced on the cover. J. G.

LOCAL LANDSCAPE SHOW

While the big cities may continue to be the sponsors of the large spring flower shows, there are many communities with sufficient facilities available and ample attendance possibilities to warrant efforts by nurserymen's groups to plan a home landscape show. There is scarcely a city that has not expanded with new home building, and consumer publications in spring carry a peak volume of editorial promotion of gardening in all its aspects.

Such an event was successful at Jackson, Mich., this year, according to news reports of the program. Designated the Jackson county home landscape show, this exhibition was held in the County building at Jackson March 12 and 13. There, more than 600 residents of the area were shown, with the aid of displays, books, plants and garden accessories, how to create beautiful landscapes about their homes. Proper places for low and high plants and plants for year-round effects were described. Illustrated lectures gave information on the care of shrubs, trees and lawns.

Five members of the department of horticulture at the University of Michigan, East Lansing, were present to make talks and answer questions. They were Harold Schick, Richard Nuttall, Joseph Cox, Fred Widmoyer and Dr. Donald Watson.

The garden center of the Jackson public library provided dozens of suggestions for reading—in the line of books and magazines. Another booth, by the university extension service, provided pamphlets on subjects relating to lawn and garden care.

Landscape equipment dealers showed tools and power equipment to demonstrate that even the work details in gardening can be lightened.

Jackson county nurseries and the Jackson County Florists' Association supplied flowers, plants and garden accessories. Garden clubs of the area and the Women's National Farm and Garden Association also set up displays and provided information. The adult education center and the Greater Jackson Association cooperated in planning the show.

FLOYD NIETZ, Ohio nurseryman, died recently. He had operated a nursery at Route No. 1, Walbridge, O.

BOYD'S SURPLUS LIST

We have the following list of surplus nursery stock—all first class in every respect—in our storage and heel-in yards, ready for immediate shipment. Please wire or call MOhawk 8-8892 for quick service.

	Each				
Crimson King Maple			FLOWERING TREES		
500 5 to 6 ft., whips.....	\$2.50	Red-Flowering Peach	Each	White-Flowering Peach	
500 4 to 5 ft., whips.....	2.00	1000 18 to 24 ins.....	\$0.20	250 2 to 3 ft.....	\$0.20
Mimosa		2000 2 to 3 ft.....	.25	350 3 to 4 ft.....	.25
500 4 to 5 ft., whips, 3-yr. ....	.30	600 3 to 4 ft.....	.40	50 7/16-in. cal. ....	.35
500 5 to 6 ft., whips, 3-yr. ....	.50	850 7/16-in. cal. ....	.50	50 9/16-in. cal. ....	.50
500 6 to 8 ft., whips, 3-yr. ....	.60	210 9/16-in. cal. ....	.60	Coronet Peach	
200 8 to 10 ft., whips, 3-yr. ....	.75	185 1 1/16-in. cal. ....	.75	50 2 to 3 ft.....	.15
White Dogwood		Purple-Leaved Plum, Newport		40 3 to 4 ft.....	.20
500 5 to 6 ft., branched....	1.00	500 2 to 3 ft., whips.....	.20	180 7/16-in. cal. ....	.25
500 6 to 8 ft., branched....	1.50	Thundercloud		530 9/16-in. cal. ....	.35
Malus coronaria		500 2 to 3 ft.....	.25	190 1 1/16-in. cal. ....	.45
250 4 to 6 ft., branched....	.65	White-Flowering Peach		260 3/4-in. to 1-in. cal.....	.55
200 3 to 4 ft., branched....	.45	200 3 to 4 ft.....	.25	30 1-in. cal. ....	.65
SHRUBS		Redleaf Peach		Red Cap Peach	
Each		200 18 to 24 ins.....	\$0.17 1/2	140 2 to 3 ft.....	.15
Abelia grandiflora		400 24 to 30 ins.....	.22	150 3 to 4 ft.....	.20
1000 18 to 24 ins., branched.....	\$0.20	FRUIT TREES		340 7/16-in. cal. ....	.25
1000 2 to 3 ft., branched....	.35	Each		240 9/16-in. cal. ....	.35
Pink-Flowering Almond		Kieffer Pear		585 1 1/16-in. cal. ....	.45
1000 18 to 24 ins., branched.....	.25	100 1 1/16-in. cal.	\$0.75	Keystone Peach	
1000 2 to 3 ft., branched....	.30	Montmorency Cherry		60 2 to 3 ft.....	.15
Red Barberry	Per 1000	100 3/4 to 1-in. cal.....	.90	150 7/16-in. cal. ....	.25
10,000 2-yr., S., 6 to 12 ins.	\$ 75.00	Early Richmond Cherry		25 1 1/16-in. cal. ....	.45
10,000 2-yr., S., 12 to 15 ins.	100.00	100 3/4 to 1-in. cal.....	.90	Dixired Peach	
5000 2-yr., S., 15 to 18 ins.	150.00	Shippers Late Red Peach		80 3 to 4 ft.....	.20
Cydonia japonica		170 2 to 3 ft.....	.15	70 7/16-in. cal. ....	.25
1000 6 to 12 ins., C.....	90.00	230 3 to 4 ft.....	.20	50 1 1/16-in. cal. ....	.45
1000 12 to 18 ins., C.....	125.00	120 7/16-in. cal. ....	.25	Redhaven	
Spiraea vanhouttei	Each	Golden Jubilee Peach		160 2 to 3 ft.....	.15
2000 12 to 18 ins., branched.....	\$0.08	80 2 to 3 ft.....	.15	190 3 to 4 ft.....	.20
2000 18 to 24 ins., branched.....	.12	110 3 to 4 ft.....	.20	220 7/16-in. cal. ....	.25
2000 2 to 3 ft., branched....	.15	Elberta Peach		100 9/16-in. cal. ....	.35
Spiraea prunifolia		80 2 to 3 ft.....	.15	Belle of Georgia Peach	
500 12 to 18 ins., T., branched.....	.25	90 3 to 4 ft.....	.20	150 2 to 3 ft.....	.15
Lilac rothomagensis		180 7/16-in. cal. ....	.25	420 3 to 4 ft.....	.20
500 18 to 24 ins., branched.....	.25	Sapa Plum		430 7/16-in. cal. ....	.25
Weigela, Red Floribunda		75 4 to 5 ft., whips.....	.30	Dixigem	
500 ..... ..	.30	70 7/16-in. cal. ....	.35	350 2 to 3 ft.....	.15
		Red June Plum		340 3 to 4 ft.....	.20
		125 2 to 3 ft.....	.20	250 7/16-in. cal. ....	.25
		130 3 to 4 ft.....	.25	Kelsey Plum	
		190 7/16-in. cal. ....	.30	50 7/16-in. cal. ....	.30
		Redleaf Peach		25 9/16-in. cal. ....	.40
		130 3 to 4 ft.....	.35	20 1 1/16-in. cal. ....	.50
		Highland Peach		Bruce Plum	
		200 3 to 4 ft.....	.20	300 2 to 3 ft.....	.20
		90 7/16-in. cal. ....	.25	300 3 to 4 ft.....	.25
		100 9/16-in. cal. ....	.35	500 4 to 5 ft.....	.35
		180 1 1/16-in. cal. ....	.45	70 5 to 6 ft.....	.40
				Oka Cherry	
				300 to 400 7/16-in. cal.....	.50

BOYD NURSERY CO., INC.

McMINNVILLE, TENN.



This tested
sell fastest
item

Sprinkler Merchandiser

NOT A KIT...it holds
a stock of parts

As the number of sprinkler head
fittings and length of pipe varies
in systems wanted, the Gates
Merchandiser permits you
customer to select the particular
parts he wants for his own lawn

Order from your wholesaler—TODAY

It's easy to get into this rapidly-growing sprinkler system business. Simply ask
your wholesaler to send you the Gates S-1 Merchandiser. It includes:

- Fittings for 8000 sq. ft. of lawn
- Colorful "self-selling" counter display
- Water-flow gauge, installation booklets, banners and hand-out pieces

Pipe is priced separately from the Merchandiser



Gates Underground

Merchandiser helps you growing "Big Ticket" the business

Whether you cater to the "Do-it-yourself" underground sprinkler market or provide installation service, this Gates Merchandiser makes it easy to make big ticket sales — everything needed for complete service underground sprinkler systems is in it. Almost every seed, lawn and mower purchaser is a live prospect.

and your profits are handsome! Look: a \$271 sale (the average) you make

\$90. That's on *parts alone*. If you install the system, of course you make still more.

Gates Sprinkler Systems employ polyethylene pipe that can be cut with a pocket knife — and fittings that anyone can attach with a screwdriver. A typical system can be installed in a single day.

Gates 50-P polyethylene pipe is impervious to soil acids... won't corrode or crack from freezing... can't rust. It's light, flexible, easy to handle.

Installation Guides Furnished FREE

With the Gates Merchandiser you receive a supply of "How to Do It" guides... telling your customers all they need to know about installing underground sprinkler systems.

ALSO — you are provided with an easy-to-use water-flow gauge which you may loan to customers. It enables them to measure available water supply simply and accurately... and to design a *professional* quality system, which will water all the lawn *evenly*.

The Gates Rubber Co., Denver, Colorado



Underground Sprinkler System

LINING-OUT STOCK FOR SPRING

POT GRAFTS

Available After May 1.

	Per 100
<i>Acer palmatum atropurpureum</i> (Bloodgood)	\$65.00
<i>Acer palmatum dissectum</i>	65.00
<i>Chamaecyparis obtusa nana</i>	60.00
<i>Picea pungens kosteri</i>	100.00
<i>Pinus strobus cembra</i>	60.00
<i>Pinus strobus fastigiata</i>	60.00
<i>Pinus strobus nana</i>	60.00
<i>Pinus strobus pendula</i>	60.00
<i>Pinus tanyosho</i> (Table Pine)	60.00
<i>Pinus sylvestris wateri</i>	65.00
<i>Viburnum juddi</i>	55.00

POT-GROWN CUTTINGS

	Per 100
<i>Buxus sempervirens fastigiata</i> ..	\$25.00
<i>Euonymus Silver Queen</i>	20.00
<i>Ilex convexa</i>	20.00
<i>Ilex helleri</i> , dwarf	22.50
<i>Pieris japonica</i> , 6 to 8 ins.	22.50
<i>Pyracantha lalandi</i>	22.50
<i>Laurocerasus schipkaensis</i> , hardy.	25.00
<i>Viburnum burkwoodi</i> , 8 to 10 ins..	25.00

Write for complete price list.

RUMMEL NURSERIES

POMPTON PLAINS 1, N. J.

FIELD TRANSPLANTS

	Per 100
Ready for shipping now.	
<i>Cornus kousa</i> , 2 to 3 ft., heavy..	\$100.00
<i>Faasens Black Maple</i> , 1-yr., grafts	75.00
<i>Ilex convexa</i>	
1-yr.	20.00
<i>Juniperus Andorra</i>	
1-yr.	20.00
2-yr.	35.00
<i>Juniperus hetzi</i>	
1-yr.	20.00
2-yr.	35.00
3-yr.	50.00
<i>Pieris japonica</i>	
2-yr.	40.00
3-yr., well-branched	65.00
<i>Taxus cuspidata</i>	
1-yr.	20.00
<i>Taxus hicksi</i>	
1-yr.	20.00
3-yr.	40.00

200,000 HARDY AZALEAS FOR SPRING DELIVERY

B&B, fine selection in the following varieties:

Rosebud
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Johann Strauss
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Some varieties up to 3 ft. Please write for prices.

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MIDDLE ISLAND, L. I., N. Y.

AMERICAN HOLLY

English Chinese Japanese
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Banded Potted B&B
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OBITUARY

Michael P. Sebian

Michael P. Sebian, Painesville, O., died at Lake County Memorial hospital March 19, after an illness of several months. He had lived the greater part of his life at Painesville and owned and operated the Sebian Nursery on Madison avenue, where he specialized in the propagation of taxus.

He was a charter member of the Lake County Nurserymen's Association and served as vice-president of the organization for the 1951-52 term and as president for the 1952-53 term. A member also of the Ohio Nurserymen's Association and the American Association of Nurserymen, he served for several years on the board of governors of the national group.

Mr. Sebian is survived by his widow, Bessie White Sebian; a brother, Joseph, and nephews.

M. B.

Mrs. Wilbur F. Ilgenfritz

Mrs. Wilbur F. Ilgenfritz, mother of James I. E. Ilgenfritz, head of Ilgenfritz Nurseries, Inc., Monroe, Mich., died of natural causes March 30. She was 87. Wilbur Ilgenfritz, her husband, had been the son of the founder of the Monroe nurseries, Israel E. Ilgenfritz, and had later headed the business when it was incorporated, in 1902, under the present name. Among the survivors, besides the son and his wife, are two grandsons, Wilbur Ilgenfritz II and James I. E. Ilgenfritz II.

RUST QUARANTINE CHANGE

A revision of the black stem rust quarantine issued by the plant pest control division of the United States Department of Agriculture, effective March 21, 1957, adds *Berberis manipurana*, *Berberis thunbergii atropurpurea erecta* and *Berberis wokingensis* to the lists of species and varieties designated as rust-resistant in the original quarantine notice. Varieties designated as rust-resistant may be moved interstate in accordance with the regulations set by the original notice.

PERRY NURSERY, 1423 Warford street, Perry, Ia., was recently opened by Ted Dicks, who has been in the nursery business at Fairmont, Minn., and Graettinger, Ia.

Eliminate costly hand labor... do your landscaping the modern way!



The **YORK RAKE** Model RE does these jobs better...faster!



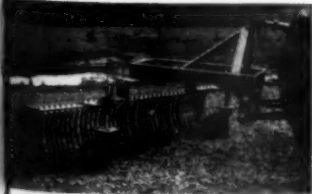
Rakes stones, roots and debris



Grades, levels and mulches soil



Reverses for bulldozing



Spreads stone and gravel

One man operating a York Rake can do more work in a few hours than a crew of men can accomplish in a whole day when they do the job by hand! The York Rake is practically the only tool you need to do every landscaping job from rough grading to final raking. You save on labor . . . you save buying extra tools, and you save the time and bother of bringing a lot of equipment to and from every job. Owners tell us — "The York Rake paid for itself on the first job!"

Sturdy... easy to adjust and operate

The York Rake is built for rugged service. The teeth are heavy-duty alloy spring steel, individually mounted on spring steel heads. The spacing between the teeth provides an ideal screening action for the most efficient raking. The Rake can be quickly adjusted to 5 forward and 5 reverse positions to give the proper raking angle for every type of working condition. The operator can raise, lower and tilt the Rake from the tractor seat. Model RE fits all tractors with a standard 3-point hitch. Smaller, lighter models for use with I.H.C. Cub, Lo-Boy and 100 Fast Hitch, Massey-Harris Pony and Pacer Tractors.

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MODERN CORPORATION
UNADILLA, NEW YORK

SPRING LIST

DECIDUOUS SHRUBS

AMORPHA FRUTICOSA (Indigo Bush)

	Per 10	Per 100
100 2 to 3 ft.	\$ 4.50	\$ 40.00
300 3 to 4 ft.	5.50	50.00
90 4 to 5 ft.	6.50	60.00
620 5 to 6 ft.	7.50	70.00
500 6 to 7 ft.	8.00	75.00

BARBERRY (Berberis)

Mentorensis		
900 18 to 24 ins.	7.50	70.00
Thunbergi (Green Japanese Barberry)		
2600 15 to 18 ins. (\$200.00 per 1000)....	2.50	23.00
4400 18 to 24 ins. (\$250.00 per 1000)....	3.00	28.00
3500 24 to 30 ins. (\$300.00 per 1000)....	3.50	33.00
Thunbergi atropurpurea (Red-leaved Japanese Barberry)		
3000 12 to 15 ins. (\$250.00 per 1000)....	3.50	30.00
3500 15 to 18 ins. (\$300.00 per 1000)....	4.00	35.00
1300 18 to 24 ins. (\$350.00 per 1000)....	4.50	40.00
800 24 to 30 ins. (\$500.00 per 1000)....	6.00	55.00

CARAGANA ARBORESCENS (Siberian Pea)

1100 2 to 3 ft.	3.50	30.00
600 3 to 4 ft.	4.25	37.50

COTONEASTER

Divaricata (Spreading)		
500 12 to 18 ins. (\$350.00 per 1000)....	4.50	40.00
800 18 to 24 ins. (\$450.00 per 1000)....	5.50	50.00
200 2 to 3 ft.	7.50	70.00
200 3 to 4 ft.	8.00	75.00

DEUTZIA

Lemoinei (Lemoine)		
250 12 to 18 ins. (\$200.00 per 1000)....	3.50	30.00

EUONYMUS

Alatus (Winged Euonymus)		
1000 18 to 24 ins. (\$800.00 per 1000)....	10.00	90.00
800 24 to 30 ins.	14.00	125.00

FORSYTHIA

Fortunei		
1000 12 to 18 ins. (\$150.00 per 1000)....	2.50	20.00
500 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
200 4 to 5 ft.	7.00	65.00

Intermedia

400 12 to 18 ins. (\$150.00 per 1000)....	2.50	20.00
400 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
2500 2 to 3 ft. (\$300.00 per 1000)....	4.50	40.00
2500 3 to 4 ft. (\$350.00 per 1000)....	5.50	50.00
300 4 to 5 ft. (\$450.00 per 1000)....	7.00	65.00

Primulina

400 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
2000 2 to 3 ft. (\$300.00 per 1000)....	4.50	40.00
3000 3 to 4 ft. (\$350.00 per 1000)....	5.50	50.00
2500 4 to 5 ft. (\$450.00 per 1000)....	7.00	65.00

Spectabilis

1000 12 to 18 ins. (\$200.00 per 1000)....	3.00	25.00
1200 18 to 24 ins. (\$300.00 per 1000)....	4.00	35.00
2500 2 to 3 ft. (\$350.00 per 1000)....	5.00	45.00
4000 3 to 4 ft. (\$400.00 per 1000)....	6.00	55.00
4000 4 to 5 ft. (\$500.00 per 1000)....	7.50	70.00

Suspensa

1000 18 to 24 ins. (\$300.00 per 1000)....	4.00	35.00
1000 2 to 3 ft. (\$400.00 per 1000)....	5.00	45.00
500 3 to 4 ft. (\$500.00 per 1000)....	6.00	55.00
200 4 to 5 ft.	7.50	70.00

HONEYSUCKLE (Lonicera)

Bella albidia		
2000 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
4500 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
500 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00
2000 4 to 5 ft. (\$350.00 per 1000)....	4.50	40.00

Grandiflora rosea

300 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
1500 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00
2500 4 to 5 ft. (\$350.00 per 1000)....	4.50	40.00

Morrowi

5000 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
4600 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
2500 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00

HONEYSUCKLE (Lonicera)—Continued

Siberian		
200 18 to 24 ins. (\$180.00 per 1000)....	\$ 2.50	Per 10
800 2 to 3 ft. (\$200.00 per 1000)....	3.00	\$ 20.00
500 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00
Tatarica rosea (Pink Tatarian)		
1200 12 to 18 ins. (\$150.00 per 1000)....	2.00	18.00
5000 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
4000 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
1000 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00
Tatarica rubra (Red Tatarian)		
1200 12 to 18 ins. (\$150.00 per 1000)....	2.00	18.00
1500 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
1600 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
Tatarica, White		
600 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
1500 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
200 3 to 4 ft. (\$250.00 per 1000)....	3.50	30.00
Tatarica rubra (Wheeling Strain)		
200 12 to 18 ins. (\$150.00 per 1000)....	2.00	18.00
300 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00
350 2 to 3 ft. (\$200.00 per 1000)....	3.00	25.00
Zabeli		
5000 12 to 18 ins. (\$200.00 per 1000)....	3.00	25.00
4500 2 to 3 ft. (\$300.00 per 1000)....	4.00	35.00
4600 3 to 4 ft. (\$400.00 per 1000)....	5.00	45.00

HYDRANGEA

Paniculata grandiflora (Pee Gee)		
1200 12 to 18 ins. (\$200.00 per 1000)....	3.00	25.00

LILAC (Syringa)

Persian Purple (Rothomagensis)		
1400 12 to 18 ins. (\$175.00 per 1000)....	2.50	20.00
3300 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
1400 2 to 3 ft. (\$400.00 per 1000)....	5.00	45.00
Vulgaris (Common Purple)		
2000 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
1100 2 to 3 ft.	4.50	40.00
500 3 to 4 ft.	6.00	55.00
Villosa (Late-Flowering Lilac)		
160 3 to 4 ft.	5.50	50.00

PHILADELPHUS (Mock Orange)

Avalanche (Dwarf Mock Orange)		
400 12 to 18 ins.	3.50	30.00
300 18 to 24 ins.	4.50	40.00
100 2 to 3 ft.	6.00	55.00

Coronarius (Sweet Mock Orange)

500 12 to 18 ins.	3.00	25.00
500 18 to 24 ins.	4.00	35.00
400 2 to 3 ft.	5.00	45.00
300 3 to 4 ft.	6.00	55.00

Grandiflorus (Big Scentless Mock Orange)

400 18 to 24 ins. (\$300.00 per 1000)....	4.00	35.00
600 2 to 3 ft. (\$400.00 per 1000)....	5.00	45.00
300 3 to 4 ft.	6.00	55.00
200 4 to 5 ft.	6.50	60.00

Pyramidalis (Tall, Upright Mock Orange)

300 18 to 24 ins.	3.50	30.00
100 2 to 3 ft.	4.50	40.00
1100 3 to 4 ft. (\$450.00 per 1000)....	5.50	50.00
3000 4 to 5 ft. (\$550.00 per 1000)....	6.50	60.00
900 5 to 6 ft. (\$650.00 per 1000)....	7.50	70.00

Virginalis (Virginal)

800 3 to 4 ft.	6.00	55.00
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PHYSOCARPUS

Opulifolius aureus (Golden-leaved Ninebark)		
600 12 to 18 ins.	2.00	15.00

PRIVET (Ligustrum)

Regel's (Regelianum)		
800 12 to 18 ins. (\$150.00 per 1000)....	2.50	20.00
400 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00
150 24 to 30 ins.	4.00	35.00
300 30 to 36 ins.	5.00	45.00

RHUS (Sumac)

Cotinus (Cogggyria)		
390 6 to 8 ft.	12.00	100.00

DECIDUOUS SHRUBS—Continued

		Per 10	Per 100
PIRAEA (Spirea)			
Arguta			
600 2 to 3 ft. (\$300.00 per 1000).....	\$ 4.00	\$ 35.00	
100 3 to 4 ft.	5.00	45.00	
Bethlehemensis			
600 2 to 3 ft.	4.00	35.00	
200 3 to 4 ft.	4.75	42.50	
Billardi alba (White Flowers)			
100 12 to 18 ins.	2.50	20.00	
350 18 to 24 ins.	3.50	30.00	
200 2 to 3 ft.	4.50	40.00	
Billardi rosea (Pink Flowers)			
100 18 to 24 ins.	3.50	30.00	
350 2 to 3 ft.	4.50	40.00	
100 3 to 4 ft.	5.00	45.00	
Froebeli (Froebel Spirea)			
2500 18 to 24 ins. (\$250.00 per 1000)....	3.50	30.00	
2000 24 to 30 ins. (\$350.00 per 1000)....	4.50	40.00	
200 30 to 36 ins.	5.50	50.00	
Tomentosa			
100 12 to 18 ins.	2.50	20.00	
400 18 to 24 ins.	3.50	30.00	
400 2 to 3 ft.	4.50	40.00	
175 3 to 4 ft.	5.00	45.00	
Vanhouttei (Van Houtte Spirea)			
2000 18 to 24 ins.	3.50	30.00	
800 3 to 4 ft.	5.50	50.00	
EMPHORICARPOS (Snowberry)			
Albus (Racemosus, Common Snowberry)			
500 12 to 18 ins. (\$150.00 per 1000)....	2.00	18.00	
900 18 to 24 ins. (\$200.00 per 1000)....	2.50	23.00	
300 2 to 3 ft. (\$250.00 per 1000)....	3.00	28.00	
Chenaulti			
100 3 to 4 ft.	3.50	33.00	
Vulgaris (Coralberry)			
700 12 to 18 ins. (\$120.00 per 1000)....	2.00	15.00	
1800 18 to 24 ins. (\$180.00 per 1000)....	2.50	20.00	
1700 2 to 3 ft. (\$220.00 per 1000)....	3.00	25.00	
BURNUM			
Molle (Kentucky Viburnum)			
800 2 to 3 ft. (\$400.00 per 1000)....	5.00	45.00	
450 3 to 4 ft.	6.50	60.00	
Carlesi 2 to 3 ft., B&B.....	35.00		
ELIGELA			
Eva Rathke (Red Flowers)			
600 18 to 24 ins.	4.00	35.00	
700 2 to 3 ft.	4.50	40.00	
450 3 to 4 ft.	5.50	50.00	
Hendersoni			
200 3 to 4 ft.	5.00	45.00	
Rosea			
175 3 to 4 ft.	5.00	45.00	
WILLOW, PUSSY (French)			
400 2 to 3 ft.	3.50	30.00	
2000 4 to 5 ft.	6.00	55.00	
3000 5 to 6 ft.	7.00	65.00	

SHADE TREES

WILLOW, THURLOW			
400 8 to 10 ft.	11.00	100.00	
400 1½ to 1½-in. cal.	12.50	115.00	
200 1½ to 2-in. cal.	17.50	160.00	
200 2 to 2½-in. cal.	22.50	200.00	
WILLOW, LOMBARDY			
600 8 to 10 ft.	7.50	65.00	
1½ to 1½-in. cal.	10.00	90.00	
1½ to 2-in. cal.	12.50	115.00	

BROAD-LEAVED EVERGREENS

LAURUS, AQUIFOLIUM			
200 15 to 18 ins.	32.50	300.00	
200 18 to 24 ins.	37.50	350.00	

LINING-OUT EVERGREENS

	Per 10	Per 100
TAXUS (Japanese Yew)		
Rooted Cuttings	\$10.00	\$ 90.00
Cuspidata		
Media browni		
Media hatfieldi		
Media hicksi		
Media intermedia		
Cuspidata capitata (Upright Yew)		
2-yr. T.	10.00	90.00

BROAD-LEAVED EVERGREENS

PYRACANTHA COCCINEA LALANDI			
2000 3-in. pots (\$220.00 per 1000).....	3.00	25.00	
EUONYMUS RADICANS VEGETUS			
500 3-in. pots	3.50	32.50	

LINING-OUT SHRUBS

	Per 100	Per 1000
AMORPHA FRUTICOSA (Indigo Bush)		
850 18 to 24 ins., S.	\$ 7.50	\$ 60.00
550 2 to 3 ft., S.	9.00	85.00
500 3 to 4 ft., S.	11.00	95.00
COTONEASTER DIVARICATA (Spreading)		
5000 6 to 8 ins., S.	7.00	65.00
2200 9 to 12 ins., S.	8.50	75.00
1200 12 to 18 ins., S.	11.00	100.00
ELAEAGNUS ANGUSTIFOLIA (Russian Olive)		
750 6 to 12 ins.	4.00	35.00
1000 18 to 24 ins.	6.00	55.00
EUONYMUS ALATUS		
1400 3 to 6 ins., T.	8.50	70.00
2500 9 to 12 ins., T.	11.50	100.00
EUONYMUS ALATUS COMPACTUS		
4000 3 to 6 ins., T.	9.00	85.00
5000 6 to 9 ins., T.	12.00	105.00
5000 9 to 12 ins., T.	15.00	140.00
FORSYTHIA		
Intermedia (Border Forsythia)		
4000 9 to 12 ins.	5.00	45.00
6000 12 to 18 ins.	6.50	55.00
1500 18 to 24 ins.	7.50	65.00
Primrose (Primulina)		
900 9 to 12 ins.	5.00	45.00
3500 12 to 18 ins.	6.50	55.00
2000 18 to 24 ins.	7.50	65.00
Suspensa (Weeping Forsythia)		
1500 9 to 12 ins., T.	10.00	90.00
700 12 to 18 ins., T.	12.00	110.00
Fortunei		
3300 12 to 18 ins.	6.50	55.00
4000 18 to 24 ins.	7.50	65.00
HONEYSUCKLE (Lonicera)		
Bella albida (White Belle)		
1250 18 to 24 ins.	7.00	65.00
Tatarica rosea (Pink Tatarian)		
1500 18 to 24 ins.	6.50	55.00
Zabeli (Zabel Honeysuckle)		
6000 9 to 12 ins.	5.00	45.00
2000 12 to 18 ins.	6.00	55.00
300 18 to 24 ins.	7.50	65.00
HYDRANGEA PANICULATA GRANDIFLORA		
1050 3 to 6 ins.	7.50	70.00
PHILADELPHUS, AVALANCHE		
675 12 to 18 ins.	6.00	55.00
PHILADELPHUS, LEMOINE		
350 3 to 6 ins.	4.00	35.00
500 6 to 9 ins.	5.00	45.00
900 9 to 12 ins.	6.00	55.00
PRIVET, REBEL'S		
3775 6 to 9 ins.	3.00	25.00
RHODOTYPOS SCANDENS		
2000 3 to 6 ins.	2.50	20.00
2500 6 to 9 ins.	3.00	25.00
550 9 to 12 ins.	3.50	30.00

Write for quantity discount.

ONARGA NURSERY CO.

Phone: AM 8-7244

ONARGA, ILL.

PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

LOW NURSERY WAGES

Nurserymen in general are agreed that the prices of nursery stock are too low—that they are not getting enough for their products or services. In spite of enjoying a greater volume of business than ever before, many nurserymen find that their profits are growing smaller because their costs have increased disproportionately.

But every now and then one runs across a nurseryman who is well satisfied with his lot. He does a large volume of business, makes a good profit, lives in a beautiful house, drives a better than average car, takes vacations not only in summer but in winter and is well pleased with his business—and himself.

If we could quiz one of these fellows, we should want to know something about his treatment of the men and women who work for him. How much does he pay them? Is the rate based on what he thinks they are worth or the minimum that they will accept? What hours do they work and under what conditions?

Upon questioning the workers themselves, we might find them not quite so enthusiastic about the nursery business as their boss is. Their income is far below what they would like it to be. They drive second-hand cars, live across the tracks, cannot afford to send their children to college and enjoy only brief vacations, usually without pay.

It is a fact that there are areas in the United States today where women working in nurseries are paid as little as 35 cents per hour and men 60 cents. Wages of 75 cents per hour are common, while wages above \$1 an hour are rare except in metropolitan areas. One would be hard pressed to find many other occupations in which the wage scale is so low.

Owners' Defense

Owners of nurseries will readily admit that they would not care to attempt to live on the income of many of the folks who work for them. When taken to task for paying such low wages some nurserymen will claim that they cannot afford to pay more. Competition has kept prices low; hence wages must remain low.

There are other nurserymen who

are a little more belligerent in their reaction. They will assert that while the wages they pay may be low they are paying their men all they are worth. They are able to employ only the poorest workers who are not worth any more than they are being paid.

It must be admitted that competition has kept nursery prices low and that many nursery employees are being paid only what they are worth. But the nursery business cannot get off the hook so easily. Nurserymen themselves are responsible for both the low prices and the low wages.

All nurseries lose men to other industries, usually because other indus-

tries pay higher wages. A man receiving \$1 per hour in a nursery may quit and go to work in a factory at \$1.50 per hour even though his job may be only sweeping floors. We are safe in assuming that he would not be paid at the higher rate if he were not worth it. Why is it that as a factory worker he is worth \$1.50 per hour while as a nursery employee he is worth only \$1 per hour? The mere act of changing jobs does not change the man or his ability.

The answer must be that his hourly production as a factory worker is worth more on the market than what he produced as a nursery employee. The manufacturer has set a price on his product that enables him to pay higher wages than the nurseryman.

Sam Jones is working in the Smith Nursery at \$1 an hour. Smith sells his shrubs for \$1 each, the price he himself established. Now, if Smith were to raise the price on shrubs to \$1.50, he could afford to pay Jones \$1.50 an hour. Jones has not

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins., clumps	\$4.00	\$35.00
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	7.00	60.00

SUGAR MAPLES

Unit price in quantities

	10 to 49	50 to 99
<i>Acer saccharum</i>		
1 1/4 to 1 1/2 in. cal.	\$4.00	\$3.50
1 1/2 to 1 3/4 in. cal.	6.00	5.00
1 3/4 to 2 in. cal.	7.00	6.00
2 to 2 1/4 in. cal.	9.00	8.00
2 1/4 to 3 in. cal.	12.00	11.00

CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
4 to 6 ft., 3 stems and up	\$30.00	....
6 to 8 ft., 3 stems and up	40.00	....
<i>Gray Birch</i>		
4 to 6 ft., 3 to 6 stems	25.00	\$200.00
6 to 8 ft., 3 to 6 stems	35.00	250.00

PAPER BIRCH

	Per 100	Per 1000
<i>Betula papyrifera</i>		
2 to 3 ft.	\$12.00	\$100.00
3 to 4 ft.	25.00	200.00
4 to 6 ft.	40.00	350.00
6 to 8 ft.	60.00	....

LINING-OUT STOCK

	Per 100	Per 1000
<i>Acer saccharum</i>		
2 to 3 ft.	12.00	100.00
3 to 4 ft.	30.00	250.00
4 to 6 ft.	60.00	500.00
<i>Clethra alnifolia</i>		
6 to 18 ins.	8.00	70.00
<i>Ilex verticillata</i>		
1 to 2 ft.	12.00	100.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.	12.00	100.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	9.00	80.00
<i>Viburnum dentatum</i>		
1 to 2 ft.	8.00	70.00

HEMLOCK TRANSPLANTS

	Per 100	Per 1000
<i>Tsuga canadensis</i>		
4 to 8 ins., trans., 2-2	16.00	150.00
8 to 12 ins., trans., 2-2	25.00	200.00

HEMLOCK SEEDLINGS

	Per 100	Per 1000
<i>Tsuga canadensis</i>		
6 to 9 ins.	4.00	20.00
9 to 12 ins.	6.00	45.00
12 to 18 ins.	10.00	80.00

All stock is first-quality collected material except as otherwise noted. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

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P. O. Box 352

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NURSERY-GROWN STOCK

RED OAKS, 2 to 7-in. cal.

DOUGLAS FIR and HEMLOCKS, 4 to 20 ft.

Write for prices.

Also: NORWAY MAPLE SEEDLINGS,
\$50.00 per 1000.

THE BUDDIES NURSERY

P. O. Box 14

BIRDSBORO, PA.

ILGENFRITZ QUICK-SHIP LIST

SHADE TREES

straight trees. Dug with the roots. Priced fairly.

Acer, Fausens Black	Each
200 6 to 8 ft.	\$5.50
200 8 to 10 ft.	7.00
Acer, Norway	
800 6 to 8 ft.	2.65
1400 8 to 10 ft.	3.65
1600 1 1/4 to 1 1/2-in. cal.	4.90
450 1 1/2 to 1 3/4-in. cal.	7.00
Acer, Schwedler	
900 6 to 8 ft.	2.90
1500 8 to 10 ft.	3.90
600 1 1/4 to 1 1/2-in. cal.	5.75
100 1 1/2 to 1 3/4-in. cal.	8.00

Acer, Silver	Each
700 6 to 8 ft.	\$1.25
600 8 to 10 ft.	1.75
700 1 1/4 to 1 1/2-in. cal.	2.50
100 1 1/2 to 1 3/4-in. cal.	4.00
Gleditsia, Moraine (Pat. No. 836)	
300 6 to 7 ft.	3.00
200 7 to 8 ft. br.	4.25
400 8 to 10 ft. br.	7.00
Platanus (Sycamore)	
100 8 to 10 ft.	3.25
100 1 1/4 to 1 1/2-in. cal.	4.75
Populus nigra Italica	
300 8 to 10 ft.	.85
200 10 to 12 ft.	1.00

Salix blanda (Wisconsin)	Each
300 6 to 8 ft.	\$1.25
200 8 to 10 ft.	1.50
Salix Niobe	
150 6 to 8 ft.	1.25
350 8 to 10 ft.	1.50
125 1 1/4 to 2-in. cal.	3.25
75 2 to 2 1/2-in. cal.	5.00
Ulmus, Moline	
200 8 to 10 ft.	2.00
150 1 1/4 to 1 1/2-in. cal.	3.25

ORNAMENTAL TREES

Grown by experts. Properly trimmed. Well-branched.

Acer ginnala	Each
200 4 to 5 ft.	\$1.50
150 5 to 6 ft.	2.00
Acer tataricum	
225 4 to 5 ft.	1.50
160 5 to 6 ft.	2.00
Betula laciniata	
125 6 to 8 ft.	3.00
Betula, 3-stem clumps	
125 6 to 8 ft.	5.50
Crataegus phaenopyrum (Washington)	
100 5 to 6 ft.	5.50
200 6 to 8 ft.	7.50
Crataegus Paul's Scarlet	
150 6 to 8 ft.	5.00
Laburnum vossii	
120 8 to 10 ft. B.R.	6.75
Malus Almey	
150 4 to 5 ft., tree form	.90
200 5 to 6 ft., tree form	1.50
Malus Doigo	
150 4 to 5 ft., tree form	.90

Malus eleyi	Each
110 3 to 4 ft., shrub form	\$0.65
150 4 to 5 ft., shrub form	1.00
100 5 to 6 ft., shrub form	1.50
200 4 to 5 ft., tree form	.90
225 5 to 6 ft., tree form	1.50
250 6 to 8 ft., tree form	2.25
225 8 to 10 ft., tree form	4.50
Malus floribunda	
125 2 to 3 ft., shrub form	.50
100 3 to 4 ft., shrub form	.65
Malus gloriosa	
120 2 to 3 ft., shrub form	.50
130 3 to 4 ft., shrub form	.65
100 4 to 5 ft., shrub form	1.00
Malus Hops	
130 2 to 3 ft., shrub form	.50
140 3 to 4 ft., shrub form	.65
160 6 to 8 ft., tree form	2.25
125 8 to 10 ft., tree form	4.50
Malus niedzwetzkyana	
90 2 to 3 ft., shrub form	.50
100 3 to 4 ft., shrub form	.65
130 4 to 5 ft., shrub form	1.00
200 5 to 6 ft., tree form	1.50
150 6 to 8 ft., tree form	2.25

Malus spectabilis	Each
150 2 to 3 ft., shrub form	\$0.50
130 3 to 4 ft., shrub form	.65
80 6 to 8 ft., tree form	2.25
Prunus elstena	
100 3 to 4 ft.	1.25
110 4 to 5 ft.	1.50
Prunus Newport	
200 5 to 6 ft.	1.45
240 6 to 8 ft.	2.00
Prunus Thundercloud	
125 5 to 6 ft.	1.45
Prunus triloba	
80 2 to 3 ft.	.75
Prunus Kwanzan	
100 3 to 4 ft.	1.75
150 4 to 5 ft.	2.50
Prunus Shiro-Fugen	
100 4 to 5 ft.	2.50
Prunus (Red-flowering Peach)	
100 3 to 4 ft.	.75
70 4 to 5 ft.	1.00
100 5 to 6 ft.	1.25
Sorbus aucuparia	
60 8 to 10 ft.	3.50

REAL BARGAINS IN FINE SHRUBS

	Each	Each		Each	Each
	10 to 99	100 and up		10 to 99	100 and up
CHAENOMELES JAPONICA			PHILADELPHUS VIRGINALIS		
(Dwarf Flowering Quince)			2 to 3 ft.	\$0.45	\$0.40
1 1/2 to 2 ft.	\$0.40	\$0.30	3 to 4 ft.	.60	.50
2 to 3 ft.	.45	.40	RHAMNUS FRANGULA		
CORNUS AMOMUM			2 to 3 ft.	.40	.35
(Silky Dogwood)			RHAMNUS SAXATILIS		
2 to 3 ft.	.40	.35	2 to 3 ft.	.40	.35
3 to 4 ft.	.60	.50	3 to 4 ft.	.55	.45
4 to 5 ft.	.85	.75	4 to 5 ft.	.85	.70
5 to 6 ft.	1.15	1.05	SPIRAEA FROEBELI		
COTONEASTER DIVARICATA			1 1/2 to 2 ft.	.45	.40
1 1/2 to 2 ft. B&B	1.85	1.60	2 to 3 ft.	.55	.45
2 to 3 ft. B&B	2.50	2.25	SYMPHORICARPOS ALBUS		
3 to 4 ft. B&B	3.25	3.00	1 1/2 to 2 ft.	.30	.25
1 1/2 to 2 ft. B.R.	.95	.85	2 to 3 ft.	.40	.35
2 to 3 ft. B.R.	1.25	1.10	3 to 4 ft.	.60	.55
3 to 4 ft. B.R.	2.00	1.75	TAMARIX AFRICANA		
COTONEASTER FOVEOLATA			3 to 4 ft.	.60	.50
2 to 3 ft.	.55	.45	4 to 5 ft.	.85	.70
3 to 4 ft.	.65	.55	VIBURNUM LANTANA		
4 to 5 ft.	.85	.75	2 to 3 ft.	.50	.45
EUONYMUS EUROPAEUS			3 to 4 ft.	.70	.60
2 to 3 ft.	.45	.40	VIBURNUM OPULIS ROSEUM		
3 to 4 ft.	.60	.50	(Old-Fashioned Snowball)		
4 to 5 ft.	.70	.60	2 to 3 ft.	.70	.60
LIGUSTRUM REGELIANUM			3 to 4 ft.	.90	.80
1 1/2 to 2 ft.	.35	.30	VIBURNUM TRILOBUM		
2 to 3 ft.	.40	.35	(American Cranberry Bush)		
PHILADELPHUS CORONARIUS			1 1/2 to 2 ft.	.45	.40
1 1/2 to 2 ft.	.35	.30	2 to 3 ft.	.65	.55
2 to 3 ft.	.45	.40			
3 to 4 ft.	.60	.50			

PEACHES

Monroe-grown. Carefully graded. Roots included.

	Each
	10 to 99 and up
1/2-in. cal. and up	\$0.65
11/16 to 3/4-in. cal.	.55
9/16 to 11/16-in. cal.	.45
7/16 to 9/16-in. cal.	.35
5/16 to 7/16-in. cal.	.20
Champion	
300 11/16-in. cal.	
350 9/16-in. cal.	
250 7/16-in. cal.	
Elberta	
400 3/4-in. cal.	
1200 11/16-in. cal.	
2000 9/16-in. cal.	
1800 7/16-in. cal.	
1200 5/16-in. cal.	
Fairhaven	
250 3/4-in. cal.	
450 11/16-in. cal.	
Halehaven	
300 3/4-in. cal.	
1200 11/16-in. cal.	
1500 9/16-in. cal.	
1500 7/16-in. cal.	
2400 5/16-in. cal.	
Redhaven	
250 3/4-in. cal.	
1100 11/16-in. cal.	
1300 9/16-in. cal.	
1000 7/16-in. cal.	
900 5/16-in. cal.	
Rio Oso Gem	
350 9/16-in. cal.	
400 7/16-in. cal.	
250 5/16-in. cal.	
Rochester	
200 11/16-in. cal.	
300 9/16-in. cal.	
300 7/16-in. cal.	
Salberta	
100 11/16-in. cal.	
200 9/16-in. cal.	
250 7/16-in. cal.	
Southhaven	
200 3/4-in. cal.	
250 11/16-in. cal.	
400 9/16-in. cal.	
400 7/16-in. cal.	
230 5/16-in. cal.	
Welcome Hale	
200 11/16-in. cal.	
250 9/16-in. cal.	
300 7/16-in. cal.	

THE MONROE NURSERY CO.

Ilgenfritz Since 1847

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MONROE, MICHIGAN

LANDSCAPE ITEMS

Cercis canadensis, 8 to 14 ft.
Cornus florida, 6 to 15 ft.
Cotoneaster divaricata, 4 to 5 ft.
Fagus sylvatica, 2 to 5-in. cal.
Picea glauca densata, 12 to 16 ft.
Picea pungens, 12 to 15 ft.
Pin Oak, 2 to 5-in. cal.
Pinus thunbergi, 8 to 14 ft.
Red Oak, 2 to 5-in. cal.
Smoke trees, 3 to 5 ft.
Sweet Gum, 2 to 5-in. cal.
Taxus browni, 5 to 6 ft.
Taxus capitata, 5 to 8 ft.
Tsuga canadensis, 5 to 11 ft.
Tsuga caroliniana, 5 to 9 ft.
Viburnum carlesii, 2 to 6 ft.

65 acres of choice landscape material. Established 38 years. Send us your want list for quotation.

BLOOMER'S NURSERY & GARDEN CENTER

Phone: Flemington 155

FLEMINGTON, N. J.

Rt. 69—5 miles north of Flemington.

PACHYSANDRA TERMINALIS

The evergreen ground cover, ideal for shade.

	Per 100	Per 1000
1-yr., field-grown plants	\$ 4.50	\$40.00
2 1/4-in. pot-grown plants	10.00	90.00

List of other ground cover plants on request

HANSEN BROS. NURSERIES, INC.

Phone: MO 4-3923

NARBERTH, PA.

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

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IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

EVERGREENS

300 acres of choice Evergreens

ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.

ROCKY HILL, CONN.

American Boxwood

Dark green foliage; makes a rapid, dense growth; tolerates shades.

4 to 6 ins., T.	10c
6 to 8 ins., T.	15c

Send for List of Unusual Plants

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

changed; he is not producing any more nursery stock, yet he is now worth \$1.50 an hour.

The higher wage will attract better men who might be able to produce more and better stock for Smith which would enable him to pay a still higher wage. There is a close relationship between prices and wages.

MASSACHUSETTS MEDALS

Arno H. Nehrling, executive secretary of the Massachusetts Horticultural Society, has announced the society's medal recipients for 1956, as follows:

The George Robert White medal of honor was awarded to the Royal Horticultural Society, London, England, for its world-wide service for the advancement of horticulture, through its flower shows, its bulletins, its yearbooks and special publications. The expansion and development of the extensive plantings at Wisley are another manifestation of the society's accomplishments.

The Thomas Roland medal went to Jacques Legendre, Gulf Stream Nursery, Wachapreague, Va., collector and propagator of herbaceous and woody plants. Mr. Legendre, for many years associated with the famous Dreer firm of Philadelphia, has traveled widely in Europe, collecting outstanding plant material, which he has propagated for leading American nurserymen.

The society's large gold medal was awarded to Charles H. Perkins, president of Jackson & Perkins Co., Newark, N. Y., for outstanding contribution to the rose industry by conducting extensive research, by introducing many new varieties and by supporting a program for publicizing roses all over America.

Another large gold medal went to Dr. R. E. Kleinsorge, Silverton, Ore., for outstanding work in hybridizing iris.

The society's silver medal was given to W. Ray Hastings, Harrisburg, Pa., executive secretary of All-America Seed Selections since 1933.

SNEED FIRE DAMAGE

J. Frank Sneed, of the Sneed Nursery Co., Oklahoma City, Okla., reports extensive damage to stored shrub stock caused by a fire in straw used by the nursery as packing material. The fire, occurring early in March, did not seriously damage the building, but heat and smoke rendered almost all stored shrubs unsalable.

The only available shrubs left at

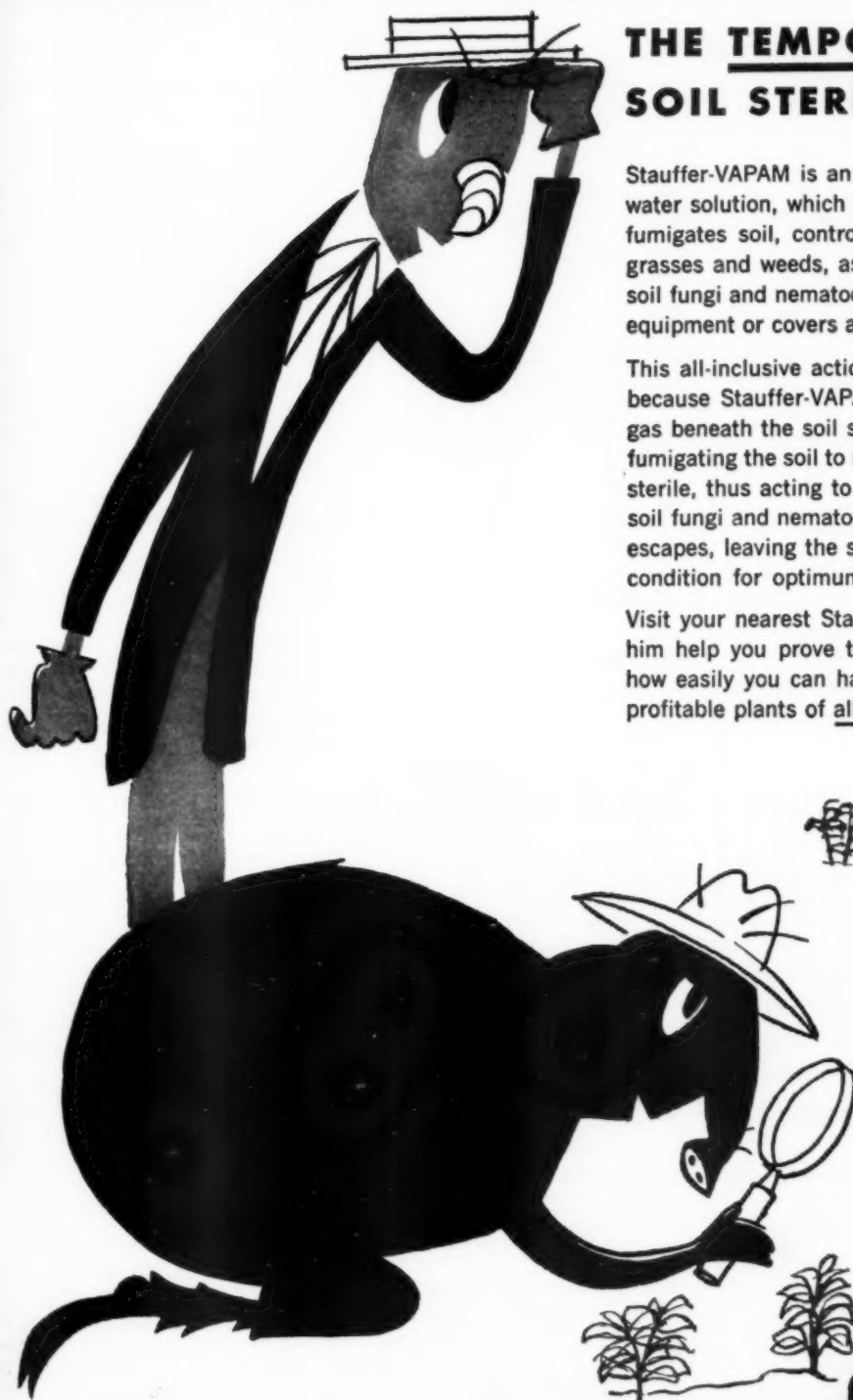
NOT A WEED IN SIGHT THANKS TO STAUFFER-VAPAM®

THE TEMPORARY SOIL STERILANT

Stauffer-VAPAM is an easy-to-use water solution, which in one application fumigates soil, controlling unwanted grasses and weeds, as well as various soil fungi and nematodes. No special equipment or covers are needed!

This all-inclusive action is accomplished because Stauffer-VAPAM releases a gas beneath the soil surface, effectively fumigating the soil to render it temporarily sterile, thus acting to destroy weeds, soil fungi and nematodes. This gas then escapes, leaving the soil in better condition for optimum plant growth.

Visit your nearest Stauffer Dealer. Let him help you prove to yourself how easily you can have healthy, profitable plants of all kinds.



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FINAL CALL FOR QUALITY LINING-OUT STOCK

SEEDLINGS

	Per 100	Per 1000
<i>Berberis thunbergii atropurpurea</i> , 2-yr., S. 15 to 18 ins.	\$12.00	\$100.00
<i>Helleborus niger</i> , 2-yr., S.	35.00	....
<i>Ilex decidua</i> , 1-yr., S. 3 to 6 ins.	7.50	60.00
<i>Picea abies</i> , 2-yr., 4 to 8 ins.	4.50	40.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S. 3 to 6 ins.	5.00	40.00
<i>Taxus capitata</i> , 2-yr., S. 3 to 6 ins.	10.00	85.00
<i>Taxus canadensis</i> , T. 4 to 6 ins.	15.00	125.00
<i>Thuja occidentalis</i> , 2-yr., S. 10 to 18 ins.	12.50	100.00

WELL-ESTABLISHED CUTTINGS FROM 2 1/4-IN. POTS

	Per 10	Per 100
<i>Ilex crenata convexa</i>	\$3.00	\$20.00
<i>Ilex crenata helleri</i>	3.00	30.00
<i>Ilex opaca</i> (4 to 6 ins. in varieties Arden, Della Bradley, St. Mary)	5.00	45.00
<i>Juniperus pfitzeriana</i>	3.00	22.50
<i>Taxus media clifforti</i>	3.00	20.00
<i>Taxus media Halloran</i>	3.00	20.00
<i>Taxus media Vermeulen</i>	3.00	20.00

GRAFTED STOCK FOR SPRING, 1957, DELIVERY

	Per 10	Per 100
<i>Juniperus chinensis columnaris glauca</i>	\$6.50	\$55.00
<i>Juniperus chinensis columnaris viridis</i>	6.50	55.00
<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Juniperus chinensis neoboricensis</i>	6.50	55.00
<i>Juniperus chinensis sargentii</i>	6.50	55.00
<i>Juniperus chinensis sargentii glauca</i>	6.50	55.00
<i>Juniperus virginiana burkii</i>	6.50	55.00
<i>Juniperus virginiana canaerti</i>	6.50	55.00
<i>Juniperus virginiana glauca</i>	6.50	55.00
<i>Juniperus virginiana pyramidaliformis hillii</i>	6.50	55.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.50	65.00
<i>Magnolia soulangeana nigra</i>	7.50	65.00
<i>Magnolia stellata</i>	7.50	65.00
<i>Magnolia stellata rubra</i>	7.50	65.00

Due to handling costs, orders for less than \$10.00 cannot be accepted.

HESS' NURSERIES

P. O. Box No. 788,
MOUNTAIN VIEW, N. J.

NURSERY STOCK

	Per 100	Per 1000
<i>Berberis thunbergii atropurpurea</i>		
2-yr., S., 4 to 10 ins.	\$ 5.00	\$ 35.00
2-yr., S., 10 to 15 ins.	9.00	70.00
2-yr., S., 15 to 18 ins.	12.50	100.00
2-yr., S., 18 to 24 ins.	20.00	175.00
<i>Berberis thunbergii</i> (green)		
2-yr., S., 4 to 9 ins.	4.00	25.00
2-yr., S., 9 to 12 ins.	6.00	40.00
2-yr., S., 12 to 15 ins.	7.50	60.00
<i>Cydonia japonica</i>		
1-yr., S., 4 to 10 ins.	4.00	30.00
<i>Euonymus alatus compactus</i>		
R.C., field-grown, 1-yr.	17.50	165.00
<i>Forsythia Spring Glory</i>		
1-yr., field-grown	6.00	45.00
1-yr., field-grown, 18 to 24 ins.	12.50	100.00
<i>Taxus cuspidata</i> , spreading		
2-yr., T.	25.00	225.00

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FOR 57 YEARS

Our business has been
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Rhododendrons
Azaleas

Perennials, Roses
All Nursery Items

BOBBINK NURSERIES, INC.
586 Paterson Ave.
E. RUTHERFORD, N. J.

LINING-OUT STOCK

Our spring, 1957, price list of quality liners now available. If interested, please write for same.

THE MUGLAS CORPORATION

Formerly
Thomas B. Meehan Co., Inc.
DRESHER, PA.

WANTED

Pyracantha lalandi, thornless
AUGUST VORNDRAN NURSERIES
1062 Ridge Rd. Webster, N. Y.

the nursery, according to Mr. Sneed, are in the field and have started to leaf out. There were good rains recently, which left fields muddy. The company was about two weeks behind in filling orders in March, but expected to get back on schedule.

NEW CORNELL GARDENS

Cornell University, Ithaca, N. Y., has begun development of the 409-acre estate of William Robertson Coe, at Oyster Bay, which was given to the university to expand and improve the university's arboretum and horticultural facilities. Gordon Jones, Penn Yan, N. Y., who received his bachelor's degree in ornamental horticulture from Cornell in 1943 and was associated with Robson Seed Co., Hall, N. Y., during the past 10 years, has been appointed to the staff at the estate, where he has undertaken the task of inventorying the trees and shrubs that make up the present plantings on the property. Each new plant is given an accession number when it is received and registered in a card file system.

Innocenti & Webel, landscape architects, Roslyn, N. Y., have been commissioned to design a new, comprehensive plan for the estate, relocating roads, parking areas and major plantings.

NORTH JERSEY OFFICERS

At the regular meeting of the North Jersey Metropolitan Nurserymen's Association, held March 21 at Passaic, N. J., the following officers were elected: President, C. W. M. Hess, Jr., Hess' Nurseries, Mountain View; vice-president, Charles Ur, Montville; treasurer, Engel Zegers, Mountain View, and secretary, Edward S. Wyckoff, Red Spade Nursery, Morristown.

The association also named Lorenz C. Frank, Paramus, and Theodore Cox, Cedar Grove, as members of the executive committee for the coming year.

Edward S. Wyckoff, Sec'y.

CALIFORNIA SHOW

[Continued from page 10]

via, won second landscape award for a formal garden with an Aztec motif. An authentic Oriental garden, by K. H. Nishi & Son, won the third landscape award.

For the display showing the highest horticultural merit, jurors selected Evans & Reeves Nurseries, West Los Angeles, for an exhibit of extremely

For healthier,
more compact
ornamentals—

These two-year-old golden arborvitae, a part of the "canning" operation at Perkins-de Wilde Nurseries, Shiloh, N. J., received "Uramite" in January 1956, and again in the fall. Note the dense, compact growth. Because "Uramite" releases nitrogen gradually and resists leaching, plants received nitrogen throughout the season, and nitrogen will still be available for spring feeding.

Use Du Pont **Uramite**[®] as the FERTILIZER COMPOUND base of your fertilization program

When Du Pont "Uramite" is applied to your ornamentals, they are assured an adequate level of available nitrogen—the most important single element in your fertilization program.

Du Pont "Uramite" is efficient—feeds high-quality nitrogen to ornamentals at the rate needed for sturdy, healthy growth and season-long vitality.

Du Pont "Uramite" is economical—resists leaching, which means more nitrogen plant food is available per unit applied.

Du Pont "Uramite" is convenient—there's less material to handle, store and apply because "Uramite" is concentrated—38% nitrogen. Also, it's free-flowing, clean and odorless.

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LONG-LASTING NITROGEN FERTILIZER,
ALWAYS SPECIFY . . .**

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FERTILIZER COMPOUND

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FREE BOOKLET shows the efficiencies and economies resulting from using Du Pont "Uramite" on ornamentals. Use this coupon to get your copy.

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"This is my fourth year with C. R. Burr & Co. Our nursery sells the best, and Burr's stock is the finest in foil wrap. Burr stock tops all package sales because of its sales appeal and quality. I am looking forward to another good season and more to come with Burr."

Joseph M. Addalia
Addalia's Garden Shop
Linden, New Jersey

Whether you're just starting a garden mart or you have been established for years, we think that we can offer you products and services that will help you where it counts—the profit column.

We believe you'll agree these are good reasons to BUY BURR:

1. Plants of the highest quality.
2. The finest packaging in the industry.
3. Professional, expert (but low-pressure) sales counsel.
4. Profit-producing sales aids, including ad mats, wall hangers, litho books, display ideas, etc.



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rare foliage plants, mainly originating in Mexico, the Hawaiian islands, south Africa and the Orient, all labeled by name and country of origin. Armstrong Nurseries received the second award for horticultural merit, shown in its gold medal Persian garden exhibit. Third award, in this class, for which competition was keen among many large exhibitors, was Roy F. Wilcox & Co., Santa Barbara, which again displayed in a garden setting masses of flowering hybrid azaleas. Trophies for beauty of display were awarded to Armstrong Nurseries, R. W. Smith Co. and Henry C. Soto Corp., in that order.

A child's garden, complete with sand piles, swings and climbing apparatus, was something new at the show and won for its exhibitor, Jack Evans & Associates, the Assistance League of Southern California trophy for "the exhibit having the greatest heart appeal." Mossholder Nursery, azalea hybridizers, had an old-fashioned garden display of specimen azaleas, which was awarded the Southern California Horticultural Institute, Inc., award.

Nursery Crops Represented

Lavish use of foliage, ceiling-high tree ferns, decorative trees, flowering plants and a wide range of outdoor-grown flowers made this show one of the outstanding in the nation, according to observers, and the great versatility of southern California's flower and nursery crops again was demonstrated in the large number of garden exhibits. Two Oriental lanais, widely separated by gardens and pools, were in the California Landscape Contractors' Association display. H. A. Conklin, wholesale rose grower, displayed polyantha roses in a farm garden setting. Superior Nurseries, plant rental division, featured an Oriental teahouse, and Simpson's Garden Town, Pasadena, had a large home garden, with modern fountain, bamboo trees and garden accessories. Green Thumb & Green Arrow Nurseries, Canoga Park, featured a life-size chef barbecuing a turkey in a garden, near an enclosed screen patio, with a ceiling-high cage of live birds.

Hundreds of palm varieties, all labeled by popular and botanical names, were shown in an award-winning exhibit of Deigaard Nurseries, Monrovia.

University of California at Los Angeles' art department entered the show for the first time, displaying six outdoor room designs, each the work of an individual student. U. C. L. A.'s college of agriculture cooperated with many other edu-

BIG

We have one of the largest available supplies of big specimen material, including:

ILEX BUXIFOLIA

- ILEX OPACA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA
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For 39 years
one of America's
leading nurseries



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AZALEAS

15,000 deciduous landscape varieties reliably hardy for the sub-zero areas of the U. S.

Vaseyi—Calendulacea—
Mollis—Arborescens

3-yr. old seedlings; twice transplanted; in open irrigated field beds 6x6 ins. apart; cut back, branched, bushy little specimens ready to grow fast in field rows.

4 to 6-yr., XXX, field rows, B&B for salesyard or garden shops.

Schlippenbachi (royal), 10 to 12 to 15 ins.

Vaseyi, 10 to 12 ins.

Mollis, 10 to 12 to 15 ins.

List on request. Come and see them if you can.

BROOKFIELD GARDENS

U. S. Rt. 46 DELAWARE, N. J.

AZALEAS AND HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES
MILFORD, DEL.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.
LITTLE SILVER, N. J.

Use **CRAG** *Sesone*

BRAND HERBICIDE-1

...FOR WEED CONTROL IN NURSERY STOCK



**SAVES \$80 OR MORE
PER ACRE!**

CRAG Sesone becomes active only when it makes contact with moist soil. This means you can safely spray it right over established nursery stock for excellent weed prevention in the rows as well as in the middles. It's proven and profitable for roses, yew, spruce, pine, boxwood, privet, phlox, gladiolus, daffodil, iris, lily, and many other shrubs and flowers listed on the label.



**KILLS WEEDS AS
THEY SPROUT!**

CRAG Sesone saves work and money because weeds never get ahead of you. An application by power or hand sprayer following cultivation keeps weeds out for weeks. Cultivate again when weeds show, and apply Sesone for another three to six weeks of weed control. If soil is dry, irrigate lightly after spraying.



**IS SAFE TO MOST
NURSERY PLANTS**

Sesone, formerly called Herbicide-1, saves many nurserymen \$80 or more per acre in hoeing and hand weeding costs. Sesone controls annual weeds that sprout from seeds in the spring, summer, and fall, including chickweed, pigweed, lamb's quarter, and many other costly, troublesome weeds.



Sesone kills sprouting seeds of most broadleaf and grass weeds—before they can rob your plants of plant food, water, or sunlight. Sesone destroys the seedlings of tough crabgrass, chickweed, purslane, and other prevalent weeds. Ideal for field and lined-out stock.

**CONTROLS WEEDS FOR
3 TO 6 WEEKS
PER APPLICATION!**



Use CRAG Sesone this season. You'll save time, money, and worry over weed control problems. Detailed instructions for use are on every Sesone package, including the 2-lb. bags and 50-lb. Fiberpak drums.

See Your CRAG Sesone Supplier today

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30 East 42nd Street **UCC** New York 17, New York

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OWN ROOT 50¢ and up

WHOLESALE NURSERYMEN - DIVISION OF SEABROOK FARM

Koster Nursery
BRIDGETON - NEW JERSEY

cational institutions in an extremely large exhibit showing work of school children and college students in agriculture and ornamental horticulture. An advisory service, staffed during all the nine days of the show, offered advice to students planning a career in this field. Philip Chandler, of U. C. L. A., chairman of the educational exhibit, and co-operating institutions planned a 1,000 square foot exhibit showing attractive common plants that could be grown in southern California gardens, ranging from a hot, dry climate to damp areas. The exhibit also explained the purposes of botanic gardens and arboretums in a community.

The Los Angeles chapter of California Association of Nurserymen entered a patio garden, with redwood accessories. The San Fernando valley chapter presented an outdoor patio and garden, featuring plants suitable for the San Fernando valley area and designed by Pete Mordigan, of Mordigan Evergreen Nurseries, president of the chapter, whose own exhibit was the adjoining one.

NEW ENGLAND SHOW

Previous attendance records were broken this year at the New England spring flower show, held March 10 to 16 at the Mechanics building, Boston, Mass. The event was opened officially by Mrs. Foster Furcolo, wife of the governor of Massachusetts. Competition was keen, and the prize committee spent an entire day deliberating over prize-winners.

The first garden to be viewed by the visitor in Exhibition hall was a foundation planting in an old courtyard, by Pine Gardens, Milton, Mass. The designer was Frederick W. Swan. The center theme was a la-

CHINESE CHESTNUT

(*Castanea mollissima*)

Blight-resistant Chinese Chestnut, good trunks about 1-in. cal., good roots.

6 to 7 ft. \$20.00 per 10

Good quantity available, sold out of smaller sizes.

Write for Trade List of Broad-leaved Evergreens and Liners.

EASTERN SHORE NURSERIES, INC.

P. O. Box 743

EASTON, MD.

JAPANESE BARBERRY

Per 100 Per 1000

GREEN

2-yr., S., 9 to 12 ins. \$ 7.50 \$ 60.00
Heavy, T., 15 to 18 ins. 20.00 175.00
Heavy, T., 18 to 24 ins. 25.00 225.00
Heavy, T., 2 to 2½ ft. 30.00

RED

2-yr., S., 6 to 9 ins. 5.50 45.00
2-yr., S., 12 to 18 ins. 9.50 85.00
3-yr., T., lightweight, 12 to 18 ins. 17.50 150.00
3-yr., T., lightweight, 18 to 24 ins. 22.50 200.00
Heavy, T., 12 to 15 ins. 22.50 200.00
Heavy, T., 15 to 18 ins. 27.50 250.00
Heavy, T., 18 to 24 ins. 33.00 300.00
Heavy, T., 2 to 2½ ft. 37.50 350.00

5% cash discount. Packing additional at cost. Can make immediate shipment.

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, Erie Co., PA.

HEMLOCK

Rhododendron—Kalmia

Azalea

CURTIS NURSERIES
CALICOON, N. Y.

QUALITY LINERS

Per 100

Viburnum Carlesi
4 to 8 ins., seedlings \$20.00
American Holly
6 to 12 ins., transplants 27.50
French Hybrid Lilacs, best varieties
12 to 18 ins., grafts 37.50
Pink-flowering Dogwood
10 to 15 ins., grafts 75.00
15 to 24 ins., grafts 85.00

Send for new Spring List.

POSSUM HOLLOW NURSERIES

6909 Henley St.
PHILADELPHIA 19, PA.



PRINCETON NURSERIES

A very complete line of
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

PRINCETON NURSERIES

Ph. Princeton 1-1776 PRINCETON, N. J.

FRASER NURSERIES, INC.

Mail address: P. O. Box 465, BIRMINGHAM 1, ALA.

Located at: 630 Montevallo Rd., S. W.

TERMS: Our terms are 30 days net, with 2% discount for payment in 10 days from date of invoice to those who have established credit with us. Cash in advance or satisfactory references with time for investigation are required of those whose credit is not already established. Where cash accompanies order we will pack free, except in the case of B&B plants. Applicable to these would be 3% cash discount, packing to be charged for additional at cost.

CONIFEROUS EVERGREENS

All B&B except where noted.

Per 10 Per 100

Juniperus excelsa stricta (Spiny Greek Juniper)		
15 to 18 ins.	\$15.00	\$125.00
18 to 24 ins.	17.50	150.00
24 to 30 ins.	22.50	200.00
30 to 36 ins.	27.50	250.00
3 to 3 1/2 ft.	32.50	300.00
4 to 5 ft., specimens	45.00	425.00
Juniperus hetzi (Hetzi Juniper)		
3 to 3 1/2 ft.	37.50	350.00
3 1/2 to 4 ft.	47.50	450.00
4 to 4 1/2 ft.	62.50	600.00
Juniperus pfitzeriana (Pfitzer Juniper)		
20 to 36 ins.	27.50	250.00
3 to 3 1/2 ft.	37.50	350.00
3 1/2 to 4 ft.	42.50	400.00
4 to 4 1/2 ft.	52.50	500.00
Juniperus glauca (Blue Pfitzer Juniper)		
30 to 36 ins.	30.00	275.00
3 to 3 1/2 ft.	40.00	375.00
3 1/2 to 4 ft.	47.50	450.00
4 to 4 1/2 ft.	62.50	600.00

This is a true Pfitzer with blue foliage.

Juniperus sylvensis (Reeves Juniper)		
3 to 4 ft.	30.00	275.00
4 to 5 ft.	35.00	325.00
5 to 6 ft.	40.00	375.00
6 to 7 ft.	50.00	475.00
Juniperus communis ashfordi (Ashford Juniper)		
3 to 4 ft.	20.00	175.00
4 to 5 ft.	27.50	250.00
5 to 6 ft.	30.00	275.00
6 to 7 ft.	37.50	350.00

Juniperus hibernica fastigiata (Narrow Irish Juniper)		
30 to 36 ins.	15.00	125.00
3 to 4 ft.	20.00	175.00
4 to 5 ft.	27.50	250.00
5 to 6 ft.	37.50	350.00

Juniperus kiyonoi (Kiyonoi Juniper)		
4 to 5 ft.	22.50	200.00
5 to 6 ft.	27.50	250.00
6 to 7 ft.	37.50	350.00
7 to 8 ft.	47.50	450.00

Juniperus sabina vonchroon (Von Ehron Juniper)		
24 to 30 ins.	17.50	150.00
24 to 36 ins.	22.50	200.00
3 to 4 ft.	27.50	250.00
4 to 5 ft.	42.50	400.00
5 to 6 ft.	57.50	550.00

Juniperus keteleeri (Keteleer Juniper), sheared		
4 to 5 ft.	40.00	375.00
5 to 6 ft.	50.00	475.00
6 to 8 ft.	60.00	575.00
8 to 10 ft.	75.00	700.00

Pinus strobus (Eastern White Pine)		
4 to 5 ft.	27.50	250.00
5 to 6 ft.	47.50	450.00
6 to 7 ft.	62.50	600.00

Thuja aurea nana (Berckmans Golden Arborvitae)		
15 to 18 ins.	15.00	125.00
18 to 24 ins.	20.00	175.00
24 to 30 ins.	22.50	200.00
30 to 36 ins.	27.50	250.00
3 to 3 1/2 ft.	32.50	300.00
3 1/2 to 4 ft.	40.00	350.00
4 to 5 ft.	50.00	450.00
5 to 6 ft.	60.00	550.00

Thuja bakeri (Baker's Arborvitae)		
30 to 36 ins.	17.50	150.00
3 to 4 ft.	22.50	200.00
4 to 5 ft.	27.50	250.00
5 to 6 ft.	32.50	300.00
6 to 7 ft.	40.00	375.00
7 to 8 ft.	60.00	575.00
8 to 9 ft.	72.50	700.00

Thuja excelsa (Excelsa Arborvitae)		
Same sizes and prices as bakeri, above.		
Thuja howardii (Howard's Blue Spire Arborvitae)		
30 to 36 ins.	20.00	175.00
3 to 4 ft.	22.50	200.00
4 to 5 ft.	27.50	250.00
5 to 6 ft.	35.00	325.00

BROAD-LEAVED EVERGREENS

All B&B except where noted.

Per 10 Per 100

Abella grandiflora (Glossy Abella)		
18 to 24 ins., B.R.	\$ 5.50	\$ 50.00
24 to 30 ins., B.R.	6.50	60.00
30 to 36 ins., heavy, B&B	7.50	100.00
3 to 4 ft., heavy, B&B	15.00	125.00
4 to 5 ft., heavy, B&B	17.50	150.00
Berberis mentorensis (Mentor Barberry)		
15 to 18 ins., B.R.	5.50	50.00
18 to 24 ins., B.R.	6.50	60.00
24 to 30 ins., B.R.	7.50	70.00
B&B 35c per plant additional.		

Buxus sempervirens (American Boxwood)

Sheared Cones Each		
Sheared Globes Each		
15 to 18 ins.	.....	\$ 3.50
18 to 21 ins.	\$ 2.50	\$ 4.00
21 to 24 ins.	3.50	5.00
24 to 28 ins.	5.00	6.00
28 to 32 ins.	6.50	7.50
32 to 36 ins.	8.00	10.00
36 to 40 ins.	10.00	12.50

We are in position to supply Boxwood in truck or car lots. Ask for special prices.

BROAD-LEAVED EVERGREENS Continued

Per 10 Per 100

Cotoneaster divaricata (Spreading Cotoneaster)		
2 to 3 ft.	\$12.50	\$100.00
3 to 4 ft.	15.00	125.00
4 to 5 ft.	20.00	175.00

Euonymus patens (Spreading Euonymus)		
15 to 18 ins., B.R.	10.00	90.00
18 to 24 ins.	12.50	100.00
24 to 30 ins.	17.50	150.00
30 to 36 ins.	22.50	200.00
3 to 4 ft.	27.50	250.00

Ilex burfordi (Burford Holly)		
3 to 4 ft.	40.00	350.00
4 to 5 ft.	50.00	450.00
5 to 6 ft.	60.00	550.00

Ilex cassine angustifolia (Alabama Dahoon Holly)		
4 to 5 ft.	25.00	200.00
5 to 6 ft.	37.50	300.00
6 to 7 ft.	47.50	400.00

Ilex cornuta (Chinese Holly), sheared		
3 to 4 ft.	42.50	350.00
4 to 4 1/2 ft.	55.00	450.00
4 1/2 to 5 ft.	72.50	600.00
5 to 6 ft.	80.00	700.00

Ilex opaca East Palatka (East Palatka Holly)		
3 to 4 ft.	30.00	275.00
4 to 5 ft.	40.00	375.00
5 to 6 ft.	47.50	450.00

Ilex vomitoria (Yaupon Holly), dense and compact, berry-bearing.		
2 to 3 ft.	20.00	175.00
3 to 4 ft.	27.50	250.00
4 to 5 ft.	40.00	375.00
5 to 6 ft.	50.00	475.00
6 to 7 ft.	60.00	575.00

Jasminum floridum (Florida Jasmine)		
18 to 24 ins.	10.00	85.00
24 to 30 ins.	12.50	110.00
30 to 36 ins.	15.00	135.00
3 to 3 1/2 ft.	20.00	185.00

Jasminum primulinum (Primrose Jasmine)		
2 to 3 ft.	12.50	100.00
4 to 4 ft.	17.50	150.00
4 to 5 ft.	22.50	200.00

Ligustrum japonicum (Japanese Privet)		
3 to 4 ft.	15.00	125.00
4 to 5 ft.	20.00	175.00
5 to 6 ft.	25.00	225.00
6 to 7 ft.	30.00	275.00

Ligustrum lucidum compactum (Wax-leaved Privet)		
18 to 24 ins.	10.00	85.00
24 to 30 ins.	12.50	100.00
30 to 36 ins.	15.00	125.00
3 to 4 ft.	20.00	175.00
4 to 5 ft.	27.50	250.00
5 to 6 ft.	37.50	350.00

Nandina domestica (Nandina)		
15 to 18 ins., well-br.	10.00	85.00
18 to 24 ins., well-br.	12.50	100.00
24 to 30 ins., heavy	17.50	150.00
30 to 36 ins., heavy	22.50	200.00
3 to 3 1/2 ft., heavy	27.50	250.00

Viburnum burkwoodii (Burkwood Viburnum)		
2 to 3 ft.	17.50	150.00
3 to 4 ft.	27.50	250.00
4 to 5 ft.	32.50	300.00
5 to 6 ft.	40.00	375.00

DECIDUOUS SHRUBS

All B.R. unless otherwise noted.

Per 10 Per 100

Acer polymorphum atropurpureum (Blood-leaved Japanese Maple)		
Selected seedlings, good color.		
24 to 30 ins., B&B	\$25.00	\$225.00
30 to 36 ins.	30.00	275.00
3 to 3 1/2 ft.	40.00	375.00

DECIDUOUS SHRUBS

Continued Per 10 Per 100

Ilex verticillata (Winterberry)		
3 to 4 ft.	\$ 7.50	\$ 70.00
4 to 5 ft.	10.00	90.00
5 to 6 ft.	12.50	100.00
Jasminum nudiflorum (Winter Jasmine)		
24 to 30 ins.	4.50	40.00
4 to 5 ft.	5.50	50.00
Kolkwitzia amabilis (Beauty Bush)		
3 to 4 ft.	5.50	50.00
4 to 5 ft.	6.50	60.00
5 to 6 ft.	7.50	70.00

Lagerstroemia rubra William Toovey (Watermelon-red Crape Myrtle)		
3 to 4 ft.	6.50	60.00
4 to 5 ft.	7.50	70.00
5 to 6 ft.	10.00	85.00
6 to 8 ft.	15.00	135.00

The last two grades should be handled B&B. Add 50c and 75c respectively to cover balling, if desired.

SHADE AND ORNAMENTAL TREES

All B.R. unless otherwise noted.

Per 10 Per 100

Acer dasycarpum (Silver Maple)		
8 to 10 ft.	.....	.....
1 1/2 to 1 1/2-in. cal., br.	\$20.00	\$175.00
8 to 10 ft.	.....	.....
1 1/2 to 2-in. cal., well-br.	22.50	200.00
10 to 12 ft.	.....	.....
2 to 2 1/2-in. cal., well-br.	27.50	250.00
12 to 14 ft.	.....	.....
2 1/2 to 3-in. cal., well-br.	37.50	350.00

Acer platanoides nigra (Crimson King Maple) (Plant Pat. No. 735)		
6 to 8 ft., br.	42.50	400.00
B&B 75c additional	.....	.....
8 to 10 ft., br.	62.50	600.00

Cercis canadensis (Eastern Redbud)		
4 to 5 ft., well-br.	6.50	60.00
5 to 6 ft., well-br.	8.50	80.00
6 to 8 ft., well-br.	12.50	100.00
8 to 10 ft., well-br.	15.00	125.00

Cercis chinensis (Chinese Redbud)		
4 to 5 ft., well-br.	10.00	90.00
4 to 5 ft., well-br.	12.50	110.00
5 to 6 ft., well-br.	15.00	135.00

Cornus florida (Flowering Dogwood)		
2 to 3 ft., B.R.	6.50	60.00
3 to 4 ft., B.R.	12.50	100.00
4 to 5 ft., B&B	25.00	225.00
5 to 6 ft., B&B	37.50	350.00
6 to 8 ft., B&B	47.50	450.00
8 to 10 ft., B&B	62.50	600.00

Malus ioensis plena (Bechtel Double-flowering Crab Apple)		
3 to 4 ft., br.	7.50	70.00
4 to 5 ft., br.	10.00	90.00
5 to 6 ft., br.	15.00	150.00
6 to 7 ft., br.	25.00	250.00

Platanus occidentalis (American Sycamore)		
8 to 10 ft., under 1-in. cal.	17.50	150.00
1 to 1 1/2-in. cal.	20.00	175.00
1 1/2 to 2-in. cal.	25.00	225.00
2 to 2 1/2-in. cal.	30.00	275.00

Populus nigra Italica (Lombardy Poplar)		
6 to 8 ft.	4.50	40.00
8 to 10 ft.	6.50	60.00
10 to 12 ft.	10.00	80.00
12 to 14 ft.	15.00	125.00

Quercus coccinea (Scarlet Oak)		
1 1/2 to 1 1/2-in. cal., well-br.	35.00	350.00
1 1/2 to 2-in. cal., well-br.	45.00	450.00
2 to 2 1/2-in. cal., well-br.	60.00	600.00

Quercus prinus (Pin Oak)		
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HYBRID RHODODENDRONS

OWN ROOT—KOSTER QUALITY

10 to 15 ins.....\$1.75

English Roseum Roseum Elegans
Catawbiense Grandiflorum

KOSTER NURSERY

BRIDGETON, N. J.

burnum tree in full bloom, which was bordered by a variety of azalea bushes. A first prize and a gold medal were awarded to this garden.

Cherry Hill Nurseries, West Newbury, Mass., presented an informal garden of rhododendrons, azaleas and birches with a summerhouse. The Beatrix Farrand silver bowl for the best exhibit of rhododendrons went to this entry.

A display designed by the Newport, R. I., branch of the National Association of Gardeners consisted of a summerhouse and summer garden with a great variety of lilies in bloom softened by delphinium, with garden pinks along the edges. First prize and a gold medal were won by the planting.

Seaside Setting

A planting by Bay State Nurseries, North Abington, Mass., showed a seaside cottage and material sympathetic to the sea, with a fishing village discernible in the distance. Yellow and white tulips also were in evidence. The exhibitor was the recipient of the Massachusetts department of agriculture trophy, awarded annually for the best exhibit by a commercial grower, as well as a first prize and a gold medal.

Mr. and Mrs. R. E. Danielson, Groton, Mass., had an all-white garden. It depicted a terrace with a background of stately pines, laburnum trees and azaleas. Masses of Viola Snowstorm were in the foreground, together with a planting of white English daisies. The entry won a first prize and a silver medal.

A display by the Boston branch of the National Association of Gardeners showed a woodland pine needle path heavily planted with primroses, Chionodoxa sardensis and, in the background, mountain laurel. A

FOR SPRING SHIPMENT

10,000 Red Barberry, 2-yr., S.,
9 to 12 ins.
2500 Red Barberry, 2-yr., S.,
12 to 18 ins.
2000 Chamacyparis plumosa aurea,
2-yr., T.
1000 Euonymus patens (small-leaved),
2-yr., T.
1000 Ilex glabra, 2-yr., T.
200 Prunus kwanzan, 1-yr., whips,
2 to 3 ft.
350 Prunus kwanzan, 1-yr., whips,
3 to 4 ft.
5000 Taxus cuspidata, 2-yr., T.
5000 Taxus cuspidata brevifolia,
2-yr., T.

VERKADE'S NURSERIES
NEW LONDON, CONN.

OWN - ROOT HYBRID RHODODENDRON TRANSPLANTS

Available Spring, 1957

Write for list.

ANGELICA NURSERIES
R. D. No. 1 MOHNTON, PA.

Pikes Peak Nurseries

P. O. Box 670, Dept. A
INDIANA, PA.

Christmas Tree Seedlings
and Transplants

Write for Free Catalog

VUYK VAN NES

Vuykiana Azaleas, Hardy Forcing Hybrids
Ghent & Mollis Azaleas, Hybrid Rhododendrons
Clematis, Peonies, Astilbe, Dicentra
Red Maple, Copper Beech, Fancy Shrubs.
140 Cedar Street, New York 6, N. Y.

SPRING SPECIALS

Euonymus Vegetus
Shrubs in Variety
Ornamental Trees in Variety
Fruit Trees in Variety
Wholesale trade list upon request.

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

AZALEAS RHODODENDRONS HOLLY

First-Class

LINERS

For Spring Shipment
See Classified for
List of Varieties.

JAMES WELLS NURSERY, Inc.

P. O. Box 141, RED BANK, N. J.

CANADIAN HEMLOCK BALSAM FIR

Northern Grown

2 to 4 ins., S.	100	1000
3 to 6 ins., S.	\$ 1.50	\$ 8.00
6 to 9 ins., S.	2.50	15.00
9 to 12 ins., S.	3.50	25.00
12 to 18 ins., S.	8.00	60.00
18 to 24 ins., S.	10.00	80.00
24 to 36 ins., S.	30.00	

Freshly collected. Well rooted. Potted and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

William Crosby Horsford
CHARLOTTE, VT.

Take a look!

You may find just what you need.

SHRUBS

	Per 100	Per 1000
BARBERRY, MENTOR		
2 to 2½ ft.....	\$85.00	\$750.00
18 to 24 ins.....	70.00	650.00
15 to 18 ins.....	55.00	500.00
12 to 15 ins.....	40.00	350.00
BARBERRY, RED-LEAVED		
18 to 24 ins.....	55.00	500.00
15 to 18 ins.....	45.00	400.00
12 to 15 ins.....	40.00	350.00
CALLICARPA DICHOTOMA		
2 to 3 ft.....	50.00	450.00
18 to 24 ins.....	40.00	350.00
CORNUS PANICULATA		
3 to 4 ft.....	65.00	600.00
2 to 3 ft.....	50.00	450.00
18 to 24 ins.....	40.00	350.00
COTINUS COGGYGRIA (Smoke Tree)		
2 to 3 ft.....	85.00	.....
DESMODIUM PENDULIFLORUM		
2-yr., No. 1.....	60.00	.....
ELDER, GOLDEN		
3 to 4 ft.....	65.00	600.00
2 to 3 ft.....	55.00	500.00
18 to 24 ins.....	45.00	400.00
EUONYMUS EUROPAEUS		
3 to 4 ft.....	60.00	550.00
2 to 3 ft.....	50.00	450.00
18 to 24 ins.....	40.00	350.00
EXOCHORDA RACEMOSA (Pearl Bush)		
2 to 3 ft.....	60.00	.....
18 to 24 ins.....	50.00	.....
12 to 18 ins.....	30.00	.....
FLOWERING QUINCE, GLOWING EMBER		
3 to 3½ ft.....	60.00	550.00
2 to 3 ft.....	50.00	450.00
FORSYTHIA SPRING GLORY		
2 to 3 ft.....	55.00	500.00
18 to 24 ins.....	45.00	400.00
FORSYTHIA VIG. BRONX. (Dwarf)		
12 to 18 ins.....	35.00	.....
HONEYSUCKLE, FRAGRANTISSIMA		
2 to 3 ft.....	55.00	500.00
18 to 24 ins.....	45.00	400.00
HONEYSUCKLE, KOROLKOWI (Blue-leaved Honeysuckle)		
3 to 4 ft.....	65.00	600.00
2 to 3 ft.....	55.00	500.00
HYDRANGEA NIKKO BLUE		
No. 1.....	90.00	850.00
HYPERICUM HIDCOTE		
No. 1.....	50.00	450.00
HYPERICUM KALMIANUM		
12 to 15 ins.....	45.00	400.00
LILAC, ROTHOMAGENSIS, pink		
2 to 3 ft.....	55.00	500.00
LILAC, ROTHOMAGENSIS, white		
3 to 4 ft.....	75.00	650.00
2 to 3 ft.....	60.00	550.00

FRENCH LILACS

	Per 100	Per 1000
Hugo de Vries		
18 to 24 ins.....	\$60.00	.....
12 to 18 ins.....	35.00	.....
Hugo Koster		
18 to 24 ins.....	60.00	.....
12 to 18 ins.....	50.00	.....
Mme. Casimir Perier		
12 to 18 ins.....	50.00	.....
Mme. Lemoine		
12 to 18 ins.....	50.00	.....
Mme. Florent Stepman		
18 to 24 ins.....	60.00	.....
PHILADELPHUS AVALANCHE		
2 to 3 ft.....	60.00	\$550.00
18 to 24 ins.....	50.00	450.00
PHILADELPHUS ENCHANTMENT		
2 to 3 ft.....	60.00	550.00
18 to 24 ins.....	50.00	450.00
PHYSOCARPUS OPULIFOLIUS NANUS		
2 to 3 ft.....	50.00	.....
18 to 24 ins.....	40.00	.....
SPIRAEA ARGUTA		
2 to 3 ft.....	55.00	500.00
18 to 24 ins.....	45.00	400.00
SPIRAEA THUNBERGI		
2 to 3 ft.....	55.00	500.00
18 to 24 ins.....	45.00	400.00
TAMARIX SUMMER GLOW		
2 to 3 ft.....	50.00	450.00
18 to 24 ins.....	40.00	350.00
WEIGELA NEWPORT (Vanicek)		
2 to 3 ft.....	65.00	600.00
18 to 24 ins.....	55.00	500.00

VINES

	Per 100	Per 1000
BITTERSWEET, AMERICAN		
2-yr., No. 1.....	\$40.00	\$350.00
2-yr., Medium.....	30.00	250.00
LONICERA DREER'S EVERBLOOMING		
2-yr., No. 1.....	50.00	450.00
2-yr., Medium.....	40.00	350.00
LONICERA GOLDFLAME (Trade-Mark)		
2-yr., No. 1.....	50.00	.....
LONICERA REDGOLD (Trade-Mark)		
2-yr., No. 1.....	50.00	450.00
2-yr., Medium.....	40.00	350.00
WISTARIA SINENSIS (Chinese Wistaria)		
2-yr., Medium.....	25.00	200.00

SHADE AND ORNAMENTAL TREES

	Per 10	Per 100
COTTONWOOD, COTTONLESS		
8 to 10 ft.....	\$11.00	\$100.00
6 to 8 ft.....	9.00	80.00
5 to 6 ft.....	7.00	60.00
FLOWERING CRAB APPLE, ALMEY		
4 to 5 ft.....	17.50	160.00
FLOWERING CRAB APPLE, DOLGO		
3 to 4 ft.....	6.50	60.00
FLOWERING CRAB APPLE, ELEY		
5 to 6 ft.....	16.50	150.00
4 to 5 ft.....	12.00	110.00
3 to 4 ft.....	8.50	80.00
FLOWERING CRAB APPLE, FLORIBUNDA RED FRUITING		
3 to 4 ft.....	8.50	80.00
FLOWERING CRAB APPLE, RED-VEIN		
5 to 6 ft.....	16.50	150.00
4 to 5 ft.....	12.00	110.00
3 to 4 ft.....	8.50	80.00
FLOWERING CRAB APPLE, REDFORD (New), Pink flowers		
5 to 6 ft.....	16.50	150.00
4 to 5 ft.....	12.00	110.00
FLOWERING CRAB APPLE, RED SILVER		
3 to 4 ft.....	8.50	80.00
ELM, CHINESE		
1½ to 2-in. cal.....	35.00	300.00
1¼ to 1½-in. cal.....	22.00	200.00

CHINESE ELM

Root-Pruned Seedlings

	Per 10	Per 100
5 to 6 ft., 9/16-in. cal.....	\$5.50	\$50.00
4 to 5 ft., 7/16-in. cal.....	4.00	35.00

HONEY LOCUST, MORaine

(Pat. No. 836)

	Each	Each
	10 to 49	50 to 499
8 to 10 ft., br.....	\$7.75	\$7.00
8 to 10 ft., whips.....	4.50	4.00

	Per 10	Per 100
PEACH, DOUBLE-FLOWERING, pink		
5 to 6 ft.....	\$12.50	\$115.00
4 to 5 ft.....	9.00	85.00
PEACH, RED-LEAVED		
3 to 4 ft.....	6.50	60.00
ROSE ACACIA, STANDARDS		
4-ft. stems.....	22.00	200.00

Write, wire or phone for prompt service

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KAN.



Norway Spruce, 2-yr. Seedling

SEEDLINGS

Christmas Tree Plantation

	Per 100	Per 1000	Per 1000 at rate
Blue Spruce (<i>Picea pungens</i>)			
4 to 8 ins., 2-yr., S.....	\$10.00	\$40.00	.....
3 to 4 ins., 2-yr., S.....	8.00	30.00	\$25.00
2 to 3 ins., 2-yr., S.....	6.00	25.00	20.00

Concolor Fir			
2 to 5 ins., 2-yr., S.....	12.00	50.00	.....

Norway Spruce			
5 to 8 ins., 2-yr., S.....	8.00	28.00	25.00
4 to 6 ins., 2-yr., S.....	6.00	22.00	20.00
2 to 4 ins., 2-yr., S.....	5.00	18.00	15.00

Scotch Pine			
6 to 12 ins., 2-yr., S.....	8.00	30.00	.....
4 to 8 ins., 2-yr., S.....	6.00	25.00	.....
2 to 4 ins., 2-yr., S.....	5.00	20.00	18.00

Austrian Pine			
3 to 6 ins., 2-yr., S.....	8.00	25.00	20.00
2 to 3 ins., 2-yr., S.....	6.00	20.00	18.00

(Once transplanted—see our advertisement on opposite page.)

100 at 100 rate; 1000 at 1000 rate;
5000 and up at 10,000 rate.

PALLACK BROS. NURSERIES, INC.

R. D. I. HARMONY, PA.
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ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

LILACS ON OWN ROOTS

Leading varieties. All sizes, 2 to 8 ft.
Write for list. Inspection invited.

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Box 158
GENESEO, N. Y.

first prize and a silver medal were won.

An informal Oriental garden by Marinus Vander Pol, Fairhaven (designer, Allen C. Haskell, New Bedford), showed a half-moon bridge with theatrical blue dancing lights, featuring tree peonies, including *Fragrans Maxima* and *Reine Elizabeth*. A tiny running brook and dwarf evergreens were typical of the Oriental manner. Judges gave the entry a first prize and a gold medal.

The familiar desert garden of cacti and succulents by F. I. Carter & Sons, Tewksbury, a first prize winner, was displayed at table height.

The Arnold Arboretum, Jamaica Plain, this year received the gold medal of the Pennsylvania Horticultural Society, which is awarded annually for an exhibit of special merit, for a collection of hardy flowering plants suitable for New England gardens. The garden, depicting an informal arrangement of evergreens, trees, shrubs, etc., contained representatives of plant introductions of the arboretum during the past 85 years. Included were *Kurume azaleas* from Japan and cedar of Lebanon, introduced in 1903.

An exhibit by Frank W. Sellner, Framingham, featured a screen with living fern embedded in Acrylite. It was a cool summer garden setting, complete with table and three chairs, with a white pine tree growing in reverse. A first prize and a gold medal were awarded this entry.

Industrial Planting

Designed by Littlefield-Wyman Nurseries, Abington, was an industrial planting that showed the entrance to a factory with a serviceable flag walk, featuring white dogwood, junipers and a side planting of rhododendrons and azaleas. A first prize, a gold medal and the Bulkley medal of the Garden Club of America for an exhibit of special merit and value went to this display. The judges also cited the exhibit as a practical and pleasing approach to a business establishment.

A first prize and gold medal went to Norumbega Nurseries, Weston, for a display of a tool shed with a colorful side planting of pink almonds in bloom, azaleas, tulips, white hyacinths, low-growing taxus, etc.

In Grand hall was a rose garden by Jackson & Perkins Co., Newark, N. Y., designed by Armand Tibbits, Greenwich, Conn. The display, winner of a first prize and a gold medal, showed the front of a house with open windows and cut flowers from the lovely rose garden. Geraniums were growing in a window box. The



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60 acres growing. Skaneateles, N. Y.

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
Azalea mollis (Chinese Azalea)			Ilex crenata <i>hetzl</i>			Picea pungens (Colorado Spruce)		
6 to 8 ins., 2-yr., T.....	\$0.22	\$0.18	An improved convexa			3 to 6 ins., 3-yr., T.....	\$0.20	..
8 to 10 ins., 2-yr., T.....	.35	.30	(Bullata) type.			6 to 8 ins., 4-yr., T.....	.35	..
10 to 12 ins., 3-yr., T.....	.65	.60	8 to 10 ins., 2-yr., T....	\$0.40	\$0.38	(See separate advertisement on SEED- LINGS for Christmas tree planting.)		
Azalea mucronulatum			10 to 15 ins., 3-yr., T....	.55	.50	Pinus mugo (Dwarf Mugho Pine)		
1-yr., bed, T.....	.25	.22	Ilex rotundifolia (Round-leaved			4 to 8 ins., 3-yr., T.....	.25	..
4 to 8 ins., 2-yr., T.....	.35	.32	Japanese Holly)			Pyracantha coccinea <i>lalandi</i>		
Azalea Ghent (pontica), pastel shades			6 to 8 ins., 1-yr., T.....	.25	.22	6 to 8 ins., 1-yr., T.....	.25	..
5 to 8 ins., 3-yr., T.....	.25	.20	8 to 10 ins., 2-yr., T.....	.38	.35	8 to 10 ins., 2-yr., T.....	.32	\$0.28
Azalea schlippenbachii , bright pink			10 to 12 ins., 2-yr., T.....	.48	.45	10 to 15 ins., 3-yr., T.....	.40	.38
2-yr., field bed, T.....	.28	.25	12 to 15 ins., 3-yr., T....	.70	.60	Rhododendron Hybrids , various		
2-yr., field bed, T.....	.35	.32	cutback .....	.70	.60	colors, from red plants. Seed-		
Bioda orientalis aurea			Juniper, Andorra (Purple Andorra)			ling grown. Very hardy.		
10 to 15 ins., 3-yr., T.....	.45	..	8 to 10 ins., 3-yr., T.....	.45	.45	5 to 8 ins., 4-yr., T.....	.55	..
Buxus sempervirens <i>welleri</i>			10 to 15 ins., 3-yr., T.....	.50	.45	8 to 10 ins., 4-yr., T.....	.85	..
(Weller's Hardy Boxwood)			Juniperus canadensis aurea			Taxus cuspidata (Spreading Yew)		
6 to 8 ins., 2-yr., T.....	.35	.32	4 to 6 ins., 1-yr., T.....	.25	..	8 to 10 ins., 2-yr., T.....	.45	..
8 to 10 ins., 3-yr., T.....	.45	..	6 to 8 ins., 2-yr., T.....	.35	..	Taxus media (Hicks' Yew)		
Chamaecyparis filifera aurea			8 to 10 ins., 3-yr., T.....	.45	..	6 to 8 ins., 2-yr., T.....	.35	..
6 to 8 ins., 2-yr., T.....	.35	..	Juniperus glauca <i>hetzl</i> (Hetz Juniper)			8 to 12 ins., 2-yr., T.....	.45	..
8 to 10 ins., 3-yr., T.....	.45	..	10 to 12 ins., 3-yr., T.....	.45	.38	Thuja occidentalis douglasii aurea		
Chamaecyparis lawsoniana <i>allumii</i>			12 to 15 ins., 3-yr., T.....	.55	.45	(Golden Arborvitae)		
8 to 10 ins., 2-yr., T.....	.35	..	15 to 18 ins., 3-yr., T.....	.70	..	8 to 10 ins., 3-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.45	..	Juniperus communis <i>hibernica</i>			10 to 15 ins., 3-yr., T.....	.55	..
Chamaecyparis plumosa aurea			<i>fastigiata</i> (Compact Irish Juniper)			Thuja occidentalis elegantissima <i>lutea</i> ,		
6 to 8 ins., 2-yr., T.....	.35	.30	12 to 15 ins., 3-yr., T.....	.45	.40	golden tip over dark green foliage.		
8 to 10 ins., 3-yr., T.....	.40	.35	15 to 18 ins., 3-yr., T.....	.55	.50	6 to 8 ins., 2-yr., T.....	.35	.30
10 to 15 ins., 3-yr., T.....	.50	.45	Juniperus pfitzeriana <i>compacta</i>			10 to 12 ins., 2-yr., T.....	.45	.40
Chamaecyparis squarrosa			(Nelson's variety). Gray-blue			12 to 15 ins., 4-yr., T.....	.55	.50
6 to 8 ins., 2-yr., T.....	.30	.25	Pfitzer. Shears compactly.			Thuja occidentalis globosa (Woodward		
8 to 12 ins., 3-yr., T.....	.35	.30	6 to 8 ins., 1-yr., T....	\$0.35	\$0.30	Globe Arborvitae)		
Euonymus fortunei <i>carrierei</i>			8 to 10 ins., 2-yr., T....	.45	..	4 to 8 ins., 1-yr., T.....	.25	..
12 to 15 ins., 3-yr., T.....	.35	.30	10 to 15 ins., 3-yr., T....	.65	..	8 to 10 ins., 2-yr., T.....	.40	.35
Euonymus fortunei <i>coloratus</i>			Juniperus pfitzeriana , regular			Thuja occidentalis pyramidalis		
Procumbent, broad-leaved creeper.			8 to 10 ins., 2-yr., T.....	.45	..	10 to 12 ins., 2-yr., T.....	.45	..
6 to 10 ins., 2-yr., T.....	.25	..	10 to 15 ins., 3-yr., T.....	.55	..	12 to 15 ins., 3-yr., T.....	.55	..
12 to 15 ins., 3-yr., T.....	.35	.30	Juniperus stricta			Tsuga canadensis (Hemlock)		
Euonymus fortunei <i>erectus</i>			4 to 8 ins., 1-yr., T.....	.35	.32	4 to 6 ins., 3-yr., T.....	.25	.22
(Big-leaved Winter Creeper)			8 to 12 ins., 2-yr., T.....	.45	.42	6 to 8 ins., 3-yr., T.....	.25	.22
10 to 12 ins., 2-yr., T.....	.35	..	Koeleruteria paniculata (Golden-			8 to 12 ins., 4-yr., T.....	.30	.28
12 to 15 ins., 3-yr., T.....	.45	..	Rain Tree)			Viburnum opulus (Snowball), red		
Euonymus radicans <i>coloratus</i>			1-yr., S. field .....	.12	.08	berries, fall.		
Small-leaved, procumbent creeper.			Leucothoe catesbaei (Drooping			10 to 15 ins., 3-yr., T.....	.18	.12
10 to 15 ins., 2-yr., T.....	.25	.20	Leucothoe)			12 to 24 ins., 3-yr., T.....	.25	.20
12 to 15 ins., 3-yr., T.....	.35	.30	4 to 6 ins., 2-yr., T.....	.20	.18	Viburnum opulus <i>nana</i> (Dwarf		
Euonymus radicans <i>vegetus</i>			6 to 8 ins., 2-yr., T.....	.25	.20	Bush Cranberry)		
8 to 12 ins., 2-yr., T.....	.30	..	Picea excelsa (Norway Spruce)			2-yr., field, T.....	.25	.22
Ilex crenata (Japanese Holly), pyramidal			4 to 6 ins., 3-yr., T.....	.12	.10	6 to 8 ins., 3-yr., T.....	.35	.32
6 to 8 ins., 1-yr., T.....	.25	.20	6 to 8 ins., 3-yr., T.....	.15	.12	8 to 10 ins., 4-yr., T.....	.45	.42
8 to 10 ins., 2-yr., T.....	.35	..	8 to 10 ins., 4-yr., T.....	.20	.18	10 to 12 ins., 4-yr., T.....	.55	.50
10 to 12 ins., 3-yr., T.....	.45	..	(See separate advertisement on SEED- LINGS for Christmas tree planting.)					
Ilex crenata <i>convexa</i> (bullata)								
6 to 8 ins., 1-yr., T.....	.25	.22						
8 to 10 ins., 2-yr., T.....	.35	.35						
10 to 12 ins., 2-yr., T.....	.48	.45						
12 to 15 ins., 3-yr., T.....	.65	.55						
Ilex crenata <i>helleri</i>								
3 to 6 ins., 2-yr., T.....	.35	..						
6 to 8 ins., 3-yr., T.....	.45	..						

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise 1/2 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

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Phone: Zelienople 789 (or 644 evenings)

(We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rt. 19)
R. D. I, HARMONY, PA.

garden was bordered by floribunda roses.

The entire area of Grand hall was designed in a series of circles. The rose garden was at the outer edge of this circle. The inner circle consisted of a series of small Dutch gardens by Breck's of Boston, that featured pink, white and dark blue hyacinths. In the center was a replica of a Dutch well head constructed in 1550. The Breck planting received a first prize and a gold medal.

The Old Colony Landscape Service, Inc., Weymouth, displayed a terrace garden featuring rhododendron and azaleas, grape hyacinths and primroses. In the first-prize and gold medal winner there was a yellow flagstone walk; a fountainhead spurted water into a pool along the terrace walk. Stately dogwoods and pine were also part of this scene.

[Continued on page 89]

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Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

Strong, well-rooted, 1-yr. plants; propagated Prepaid F.O.B. here in same shipment in soil and peat frames with light shade... \$5.00 \$42.50 \$40.00
Available for immediate shipment March through December. Shipments anywhere, including Canada. Good packing free. A good source of supply.

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Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

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- Quality Nursery Stock
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Upright, 6 to 14 ft.
Also Other Varieties of Taxus.
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BABYLON, L. I., N. Y.

The Functions of Trade Associations

By Elmer J. Merz

Before discussing the advantages of a chapter setup such as that in the California Association of Nurserymen, I should like to say something about associations in general. The simplest definition of an association is a group of people who gather in order to solve mutual problems for their mutual interests. Actually, all of society is made up to some degree of just such groups. Call them associations, clubs, unions, even churches, if you will. Every organized group has some particular objective, some reason for being.

Associations are not new. As far back as the late 1700's the first trade association was formed, and today the number of active associations in this country runs into thousands. Some groups are formed to solve one specific problem. Maybe some legislation is introduced at a local, state or national level, and groups organize in self-protection to fight or to favor that legislation. Once this particular fight is over, the association or group may dissolve. The more permanent types of associations are generally trade associations, and they carry on aggressive programs year after year.

Such associations are, as a rule, nonprofit organizations, and because they are not in business to make money, their dues structure is set up on an equitable basis only for the purpose of raising enough money to carry out the yearly activities of that group. When one is asked to support his association by the payment of dues, he should remember that all the money he pays is spent for his benefit and also that the association can carry out its activities only to the extent that the members are willing to pay for the support of those activities.

The areas of service vary with the types of organizations. The association that operates on a national level must interest itself primarily with those problems that affect the industry on a national level. This precludes the possibility of such a trade association's concerning itself with problems on a state level or on

a local level, excepting in those instances when such problems could develop into problems affecting the entire industry nation-wide.

The American Association of Nurserymen handles nursery problems on a national level, and I need only point to the recent federal fair trade practices rules for the nursery industry to show the need for representation by an organization that exists for the purpose of handling problems emanating from Washington sources.

State Groups

The California Association of Nurserymen and the Washington State Association of Nurserymen are formed to look after problems that affect industry on a state-wide level. It is important to the industry to be represented at all times in the state capital to be sure that rules and regulations, tax measures, labor laws and any other legislation that is enacted will not be harmful to the nursery industry.

However, the state organization cannot solve all individual problems. Too often members join an organization with the idea that it will force their competitors out of business or at least compel them to change their methods of doing business. I submit that state associations, which are of a purely voluntary nature, would make a great mistake if they endeavored to tell the individual member how to conduct his business. Associations cannot and should not concern themselves with price fixing, business policies or other matters that would interfere with the rights of the individual to carry on his own business in the manner that he desires. No one wants the other fellow to tell him how to run his business.

I have previously stated that the state association will be interested only in those problems that affect the industry on a state-wide level. However, many times local problems develop into state-wide problems, and in those cases the organization must take an interest at the local

MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Upright, thorny-type, hardy, northern-grown stock, for conservation, living fences and budding understock. Our soil makes the finest fibrous roots. Our high quality is well known.

Per 1000
1 to 3 mm. in caliper, cutback to about 4 ins. \$10.00
3 to 4 mm. in caliper, cutback to about 4 ins. 15.00

Free Packing
Less than 1000 add 30%.

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Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

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PEARCE SEED COMPANY
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TAXUS

Per 100
Cuspidata, T., 6 to 8 ins. \$15.00
Media browni, T., 6 to 8 ins. 20.00
Media hickoi, T., 6 to 8 ins. 20.00
Free Packing

ALANWOLD NURSERY
NESHAMINY, Bucks Co., Pa.

CERTIFIED BLUEBERRY PLANTS

Per 100 Per 1000
1-yr., rooted cuttings.... \$ 8.00 \$ 70.00
6 to 12-in. plants..... 15.00 135.00
P.O.B. 20 Varieties

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Box 14 CHATSWORTH, N. J.

Excerpts from comments on the values of association membership and on the usefulness of a chapter setup for a state association, prepared for the recent convention program of the Washington State Nurserymen's Association by Elmer J. Merz, executive secretary of the California Association of Nurserymen.

SURPLUS STOCK IN STORAGE

TERMS: As per our published list which includes satisfactory credit or cash with order.

Please order full bunches. 300 of any variety and size at 1000 rate.

	Per 100	Per 1000
ASH, GREEN		
2 to 3 ft.	\$ 4.00	\$ 35.00
18 to 24 ins.	3.00	25.00
12 to 18 ins.	2.50	20.00
6 to 12 ins.	1.40	12.00
BOX ELDER		
6 to 12 ins.	1.50	12.00
BUFFALO BERRY		
4 to 6 ins.	2.00	15.00
CLEMATIS LIGUSTIFOLIA		
No. 1	4.50	40.00
No. 2	3.50	30.00
8 to 15 ins.	2.50	20.00
COLUTEA ARBORESCENS (Bladder Senna)		
1/4-in. cal., topped to approx. 18-in.	7.50	70.00
CORNUS AMOMUM (Silky Dogwood)		
18 to 24 ins.	7.00	65.00
12 to 18 ins.	6.00	55.00
6 to 12 ins.	5.00	45.00
CORNUS PANICULATA		
2 to 3 ft.	7.00	65.00
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
CORNUS STOLONIFERA		
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.00	25.00
CORYLUS AMERICANA (Hazelnut)		
6 to 9 ins.	5.00	45.00
4 to 6 ins.	3.50	30.00
COTONEASTER ACUTIFOLIA		
18 to 24 ins.	11.00	100.00
12 to 18 ins.	8.50	75.00
6 to 12 ins.	5.50	50.00
ELM, CHINESE		
6 to 6 ft.	10.00	100.00
4 to 5 ft.	12.00	100.00
3 to 4 ft.	7.50	65.00
6 to 12 ins.	1.50	12.00
GRAPE, WILD (Vitis riparia)		
1/2-in. cal. (approx. 12 to 18 ins.)	3.50	30.00
8 to 12 ins.	2.50	20.00
HACKBERRY		
6 to 12 ins.	1.80	15.00
HONEYSUCKLE		
2 to 3 ft.	15.00	130.00
18 to 24 ins., branched	14.00	120.00
LILAC, COMMON		
4 to 6 ins.	3.50	30.00
LOCUST, BLACK		
4 to 5 ft.	8.50	75.00
3 to 4 ft.	5.50	50.00
6 to 12 ins.	1.70	15.00
LOCUST, THORNLESS HONEY		
3 to 4 ft.	8.50	75.00
2 to 3 ft.	5.00	45.00
18 to 24 ins.	3.50	30.00
6 to 12 ins.	1.70	14.00

	Per 100	Per 1000
MAPLE, GINNALA		
12 to 18 ins.	\$ 4.00	\$ 35.00
6 to 12 ins.	3.00	25.00
MULBERRY, RUSSIAN		
12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.40	12.00
OAK, BUR		
12 to 18 ins.	8.50	80.00
OAK, PIN		
1/4-in. cal. (approx. 9 to 12 ins.)	7.00	65.00
6 to 9 ins.	5.00	45.00
NINEBARK, RAMALEYI semidwarf, northern		
12 to 18 ins.	4.50	40.00
PRUNUS MELANOCARPA (Western Black Choke Cherry), 8 to 16 ft.		
1/4-in. cal.	5.50	50.00
6 to 9 ins.	3.50	30.00
4 to 6 ins.	2.50	20.00
PRUNUS PADUS COMMUTATA (Mayday Tree), 10 to 15 ft.		
2 to 4 ft.	12.00	110.00
2 to 3 ft.	8.00	75.00
18 to 24 ins.	7.00	65.00
12 to 18 ins.	5.50	50.00
PRUNUS SEROTINA (Wild Black Cherry), 30 to 40 ft.		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
RIBES ODORATUM		
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.50	30.00
ROSE, HANSEN HEDGE		
18 to 24 ins.	5.50	50.00
12 to 18 ins.	4.50	40.00
6 to 12 ins.	3.00	25.00
RUSSIAN ARTEMISIA		
3 to 4 ft.	8.00	75.00
2 to 3 ft.	6.50	60.00
18 to 24 ins.	5.00	45.00
12 to 18 ins.	3.50	30.00
SILVERBERRY (Elaeagnus commutata)		
6 to 9 ins.	4.00	35.00
4 to 6 ins.	2.50	20.00

TREES

	Per 10	Per 100
Elm, American, 1 1/4-in. cal.	\$22.00	\$200.00
8 to 10 ft.	15.00	165.00
6 to 8 ft.	12.00	110.00
5 to 6 ft.	8.00	75.00
Elm, Moline, 1 1/4-in. cal.	28.00	250.00
8 to 10 ft.	22.00	200.00
6 to 8 ft.	15.50	140.00
5 to 6 ft.	11.00	100.00
Hackberry		
2-in. cal.	65.00	.....
1 1/2-in. cal.	50.00	450.00
6 to 8 ft.	22.00	200.00

The following varieties can and are being used as understocks.

	Per 100	Per 1000
PRUNUS AMERICANA (American Plum)		
1/4-in. cal. (approx. 2 to 3 ft.)	\$ 5.00	\$ 45.00
1/8-in. cal. (approx. 18 to 24 ins.)	4.50	40.00
2/16-in. cal. (approx. 12 to 18 ins.)	3.30	28.00
No. 3 (approx. 6 to 12 ins.)	2.10	18.00
PRUNUS BESSEYI (Western Bush Cherry)		
2 to 3 ft.	10.00	90.00
18 to 24 ins.	8.00	75.00
PRUNUS FRUTICOSA (Mongolian Cherry), 3 to 4 ft.		
18 to 24 ins. br.	11.00	100.00
2/16-in. cal. (approx. 8 to 12 ins.)	6.50	60.00
PRUNUS HORTULANA , a nonsuckering American Plum, 8 to 12 ft.		
No. 1	5.50	50.00
2/16-in. cal. (approx. 12 to 18 ins.)	4.50	40.00
No. 3 (approx. 6 to 12 ins.)	3.00	25.00
PRUNUS JAPONICA (Korean Cherry), 2 1/2 to 3 ft.		
18 to 24 ins.	11.00	100.00
No. 3 (approx. 6 to 8 ins.)	4.50	40.00
PRUNUS SPINOSA (European Plum, black thorn), 3 to 5 ft.		
1/8-in. cal. (approx. 12 to 18 ins.)	8.00	75.00
No. 3 (approx. 6 to 8 ins.)	4.50	40.00
PRUNUS TOMENTOSA (Nanking Cherry), 5 to 6 ft.		
2 to 3 ft.	13.00	120.00
18 to 24 ins.	10.00	90.00
6 to 12 ins.	4.50	40.00
4 to 6 ins.	3.00	25.00

PLUMFIELD NURSERIES, INC.

P. O. Box 7

FREMONT, NEB.

level. For example, not long ago a licensing matter developed in a local California area. The representatives of the state had implied that all nurserymen were subject to a certain dealer license law and were insistent that every nurseryman take out this license. When word of this development reached the association office, it was realized that, unless the move were stopped locally, it could spread through the entire state and affect every nurseryman in California. Immediate conferences

were arranged with the head of the division handling this licensing, and it was possible to convince him that the intent of the law was not to apply to retail nurserymen, with the result that this problem was handled before it spread too far. This was a situation that developed on a local level, but was obviously something to be handled by the state association.

Another example that was even more local concerned itself with the attempt of one of the counties in

California to prevent landscape contractors from installing sprinkling systems. Their contention was that the county ordinance permitted only a licensed plumber to do this work. Naturally, while this was a local problem, it did concern the association, because if the county could make this rule stick, other counties in the state could have prevented nurserymen from installing sprinkling systems.

In this instance the matter was taken to court, on the basis that the

PLANTING TIME?

Here are some good lining-out or even smaller landscape sizes.

<i>Cotoneaster apiculata</i>	Each	Each
Hardy, bright red-berried, low-growing spreader.	100	1000
	rate	rate
2-yr., T.	\$0.45	\$0.40
3-yr., T. ....	.60	.55
<i>Cotoneaster divaricata</i>		
2-yr., T., heavy ....	.30	.25
<i>Eucynus alatus</i>		
4-yr., T., 15 to 18 ins. ....	.45	.40
4-yr., T., 18 to 24 ins. ....	.60	
<i>Eucynus alatus compactus</i>		
2-yr., 2-in. pots ....	.20	.18
5-yr., T., 15 to 18 ins. ....	.70	.65
<i>Eucynus radicans erectus</i>		
3-yr., T., 12 to 15 ins. ....	.45	.40
3-yr., T., 15 to 18 ins. ....	.60	.55
<i>Ilex glabra—Improved</i>		
Dense, low-growing, hardy, excellent strain.		
2-yr., T. ....	.50	.45
<i>Viburnum burkwoodi</i>		
2-yr., T., heavy ....	.40	
3-yr., T., heavy ....	.55	
<i>Juniperus glauca hetsi</i>		
3-yr., TT., heavy, 9 to 12 ins. ....	.40	.35
3-yr., TT., heavy, 12 to 15 ins.50	.45

Ready for immediate shipment. At least 50 of a kind and size, please.

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<i>Andorra Juniper</i>	Each
Outdoor plants in full sun.	
6 to 10 ins.	\$0.06
<i>Blue Hets Juniper</i>	
6 to 10 ins. ....	.07
<i>Von Ehren Juniper</i>	
Outdoor plants in full sun.	
A few left in shade house.	
8 to 10 ins. ....	.06
<i>Pfitzer Juniper</i>	
6 to 8-in. bands ....	.14½
<i>Spreading Japanese Yew</i>	
6 to 8-in. bands ....	.20
<i>Forsythia Lynwood Gold</i>	
Outdoor plants in full sun.	
6 to 10 ins. ....	.06
<i>Forsythia Spring Glory</i>	
Outdoor plants in full sun.	
6 to 10 ins. ....	.04
<i>Eucynus coloratus</i>	
Outdoor plants in full sun.	
8 to 10 ins. ....	.03½
<i>Eucynus patens (kiauschovicus)</i>	
Small, medium or large-leaved.	
Outdoor plants in full sun.	
6 to 10 ins. ....	.04
<i>Pyracantha lalandi</i>	
Outdoor plants in full sun.	
5 to 6 ins. ....	.05

All above bare-root plants started outdoors last summer. All heavy rooted. See classified ad under lining-out stock for 26 other items. Less than 300, total order, add two cents per plant.

McININCH GREENHOUSES
ST. JOSEPH, MO.

state in licensing landscape contractors included in the scope of the work that they could install sprinkling systems, and the courts had to decide whether state law superseded local ordinances. In this case a favorable decision was rendered by the courts.

One more example is illustrative. In the courts in California today is a case to determine whether or not nursery stock can be taxed as personal property when it is in the fields. This was actually a local problem, because this tax is collected by each county and the decision as to what is taxable and what is not is pretty much up to the county assessor. In one county the assessor had concluded that the roses in the fields in one of the leading nurseries in California were subject to taxation as personal property. The tax was paid under protest and the matter taken to the courts.

Now this problem is that of one nurseryman, but nevertheless it is something that the entire industry must work on, because a precedent as to the right to tax or exempt from taxation will be established by the court decision in this case. The state association has taken an active part in this matter, for here again is a local problem of an individual nurseryman that can become a burden upon the entire industry should an unfavorable decision be rendered in the case. The association will spend a lot of time and money on this particular matter.

Local Problems

If a state association carries on these activities and many others, what is the purpose of chapters? That brings the discussion to problems on a local level that are important to members within a given area, but not necessarily of importance to people outside that area.

There are many of these problems that come up from time to time that can be handled on a local level and do not require the attention of the state association, and certainly one of the most important matters is members' participation in local affairs. At the chapter level the member has a wonderful opportunity to be a factor in every community activity, and it is important for the local group to be a leader in the home community.

As chapters of the state association, local groups have more strength and can carry more weight than if they were simply organizations within a limited area, with no connection with any other group. Such chapters can meet more frequently than the parent group; they are

NORTHERN-GROWN STOCK

3-yr. SEEDLINGS

	Per 100	Per 1000
<i>Colorado Blue Spruce</i>		
4 to 6 ins.	\$4.50	\$40.00
<i>Black Hills Spruce</i>		
4 to 6 ins.	4.50	35.00
<i>American Arborvitae</i>		
4 to 8 ins.	4.00	35.00
<i>Ponderosa Pine</i>		
8 to 12 ins.	3.50	30.00

2-yr. SEEDLINGS

	Per 100	Per 1000
<i>Colorado Blue Spruce</i>		
2 to 4 ins.	\$3.00	\$25.00
<i>Black Hills Spruce</i>		
2 to 4 ins.	3.00	25.00
<i>Mugho Pine, Dwarf Tyrolean</i>		
1½ to 2 ins.	2.00	25.00
<i>Scotch Pine, Riga</i>		
2 to 4 ins.	2.50	20.00
<i>Ponderosa Pine, 2 to 4 ins.</i>	2.50	20.00
<i>Austrian Pine, 2 to 4 ins.</i>	3.00	25.00
<i>Norway Spruce, 2 to 4 ins.</i>	3.00	25.00
<i>American Arborvitae</i>		
2 to 4 ins.	3.00	25.00
<i>Snowy Mountain Douglas Fir</i>		
2 to 4 ins.	3.50	30.00

TRANSPLANTS

4-yr. Transplants

	Per 100	Per 1000
<i>Norway Spruce</i>		
12 to 15 ins.	\$18.00	\$150.00
10 to 12 ins.	15.00	120.00
8 to 10 ins.	12.00	100.00
<i>American Arborvitae</i>		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
8 to 10 ins.	10.00	80.00
<i>White Spruce</i>		
6 to 10 ins.	12.00	100.00
4 to 6 ins.	8.00	70.00

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Unusual landscape, addition to tree lawn or shrub border. Branches both large and small grow upward with an exotic corkscrew twist.

A charming hardy Oriental tree that will delight you and your horticulturally interested customers.

	Per Each	Per Dozen
4 to 5 ft.	\$2.50	\$25.00
6 to 8 ft.	3.50	35.00

BEARDSLEE NURSERY
PERRY, OHIO

essentially individual organizations having their own officers, meeting preferably on a given day each month and taking an active part in local affairs. The monthly meetings enable nurserymen in the chapter area to become better acquainted. People who know each other work together better, and close cooperation with one another is bound to raise standards of the entire industry in the area.

Chapter Status

The chapters, bound by common interests, make up the state association, and each chapter with representation on the state board of directors will determine policies of the state group and more or less form the program for the state association. As local groups become more mature, they will gain experience that enables them to have a better understanding of their responsibilities to themselves, to the other members of the industry and to the public.

In its formative period, every association must limit its program. It cannot engage in all the possible activities, but as the size of the organization increases, the groups take on more and more activities in line with the budget and the staff available.

In order to have a successful organization, the individual members must be prepared not only to support that association financially but physically. By that I mean take an active part in all meetings and work with others on committees. Paying dues only and not taking part in the work is going into the project only half-heartedly. Successful trade associations must have voluntary workers, people who are willing to devote their time and energy toward helping the association provide better service to its industry and to its members.

A trade association is only as good as its members, and in joining any trade association the member should not ask, "What is the association going to do for me?" Rather he should say, "What am I going to do for the association?" A trade association is working for the common interest. Its main objective is to better the industry, and in bettering the industry it is making it easier for the individuals in that industry to carry on a more successful and profitable business. Trade associations are thoroughly democratic organizations. Small and large companies have equal representation. No company is too small nor too large to be a member.

In every group, in any industry,

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The finest of California and Oregon-grown roses. Stored under refrigeration at 33-degree temperature. Condition: Perfect.

NONPATENTED ROSES

	1 to 9	10 to 19	20 to 99	100 to 249	250 and up
No. 1	80c	70c	65c	60c	55c
No. 1½	70c	65c	55c	50c	45c
RED SHADES					
Ami Quinard					
McGregory's Scarlet					
Polinsettia					
Red Radiance					
PINK SHADES					
Editor McFarland					
WHITE					
K. A. Viktoria					
FLORIBUNDA ROSES					
RED SHADES					
Else Poulsen					
Floradora					
Improved					
Lafayette					
Red Rimples					
Rosenelle					
CLIMBING AND RAMBLER ROSES					
RED SHADES					
Cl. American Beauty					
Cl. Etolite de Hollande					
Cl. Paul's Scarlet					
PINK SHADES					
Cl. New Dawn					

PATENTED ROSES

	1 to 9	10 to 19	20 to 99	100 to 249	250 and up
Retail price	\$1.50	\$1.00	\$0.90	\$0.75	\$0.70
1.75	1.15	1.00	.87½	.80	.75
2.00	1.25	1.10	1.00	.95	.85
2.25	1.40	1.25	1.12½	1.05	.95
2.50	1.60	1.40	1.25	1.20	1.10
2.75	1.75	1.50	1.37½	1.30	1.20

PATENTED FLORIBUNDA ROSES

	Retail Price
Betty Prior (Pat. No. 340), pink	\$1.75
Circus (Pat. No. 1382), multicolor	2.50
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Embers (Pat. No. 1178), red	2.00
Fashion (Pat. No. 789), pink-coral	2.00
Geranium (Pat. No. 811), red	1.75
Glacier (Pat. No. 1025), white	2.00
Goldlocks (Pat. No. 672), medium yellow	1.75
Irene of Denmark (Pat. No. 889), white	1.75
Jimmy Cricket (Pat. No. 1346), red	2.00
Ma Perkins (Pat. No. 1143), pink blend	2.00
Masquerade (Pat. No. 975), red	2.00
Pinocchio (Pat. No. 484), pink blend	1.75
Redcap (Pat. No. 1292), red	2.00
Red Pinocchio (Pat. No. 812), white	1.75
Siren (Pat. No. 1197), red	1.75
Spartan (Pat. No. 1353), coral-red	2.75
Summer Snow (Pat. No. 415), white	1.50
Vogue (Pat. No. 926), pink blend	2.00
World's Fair (Pat. No. 362), dark red	1.50

PATENTED GRANDIFLORA ROSES

	Retail Price
Carrousel (Pat. No. 1066), medium red	\$2.00
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Queen Elizabeth (Pat. No. 1259), pink	2.75
Roundelay (Pat. No. 1280), vivid red	2.50

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Cl. Gladiator (P.A.F.), rose-pink	2.75
Cl. Goldlocks (Pat. No. 1090), medium yellow	2.50
Cl. King Midas (Pat. No. 586), yellow	2.00
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Cl. Spectacular (Pat. No. 1116), scarlet	2.50
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Blanche Mailerin (No. 594), white	2.25
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Forty-Niner (Pat. No. 792), two-tone	2.25
Golden Masterpiece (Pat. No. 1284), yellow	2.75
Grandmere Jenny (Pat. No. 1148), pink	2.25
Helen Traubel (Pat. No. 1028), pink blend	2.50
Henry Ford (Pat. No. 1218), pink	2.25
K. T. Marshall (Pat. No. 607), pink	1.75
La Jolla (Pat. No. 1103), pink	2.75
Mirandy (Pat. No. 632), garnet-red	2.25
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Pencee (Pat. No. 591), cream blend	2.50
Pink Fragrance (Pat. No. 1493), pink	2.50
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	100	1000
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2-yr., 2¼-in. pots	\$20.00	\$150.00
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SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman. Planting guide for florists and nurserymen. \$7.50. American Nurseryman, Chicago 4, Ill.

LINING-OUT STOCK

For Spring, 1957, Delivery

One-Year Potted Stock, Cutting-Grown	Per 100	1000
Buxus koronana, 2-in. pots		
6 to 8 ins.	\$22.50	\$200.00
Buxus sempervirens,		
2 1/4-in. pots, 6 to 8 ins.	22.50	200.00
Cotoneaster sabell, 2-in. pots, 6 to 8 ins.	17.50	.....
Hedera helix (Baltic Ivy), 6 to 10 ins., vines.	15.00	120.00
Juniperus hetzi, 2-in. pots, 6 to 8 ins.	20.00	180.00
Juniperus pfitzeriana, 2-in. pots, 6 to 8 ins.	20.00	175.00
Taxus Hicksi,		
2 1/4-in. pots, 4 to 8 ins.	22.50	200.00
Two-Year Potted Stock, Cutting-Grown		
Buxus sempervirens,		
2 1/4-in. pots, 6 to 8 ins., bushy.	27.50	225.00
Cotoneaster apiculata,		
2 1/4-in. pots, 4 to 8 ins.	22.50	.....
Juniperus hetzi, 2 1/4-in. pots, 6 to 8 ins.	22.50	200.00
Pyracantha coccinea pauciflora, 2-in. pots, 3 to 6 ins.	22.50	.....
Pyracantha royaleana, 2-in. pots, 3 to 6 ins.	22.50	.....
Taxus cuspidata, 2-in. pots, 6 to 9 ins.	20.00	180.00
Taxus cuspidata, 2 1/4-in. pots, 6 to 9 ins.	22.50	200.00
Taxus Hicksi, 2 1/4-in. pots, 6 to 8 ins.	25.00	225.00
Transplanted Stock under Lath. Bare roots.		
Arborvitae globosa, 2-yr., 6 to 8 ins.	27.50	250.00
Canadian Hemlock, 1-yr., 8 to 10 ins.	27.50	250.00
Taxus cuspidata, 1-yr., 6 to 8 ins.	32.50	300.00
Taxus cuspidata, 2-yr., 8 to 10 ins.	37.50	350.00
Seedlings, Well-Established, Potted.		
Cotoneaster apiculata, 2-in. pots.	22.50	.....
Mahonia aquifolium, 2-in. pots.	22.50	.....
Pyracantha coccinea lalandi, 2-in. pots.	20.00	.....
Pyracantha coccinea lalandi, 2-in. pots cutting-grown.	22.50	.....
Pyracantha royaleana, 2-in. pots.	20.00
Pyracantha royaleana, 2-in. pots, cutting-grown.	22.50

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PFITZER JUNIPER, B&B

	Each
18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.75

Taxus cuspidata densiforma

18 ins. and up	4.25
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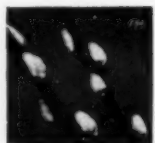
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Catkin sheath rich mahogany-red with large attractive silvery-pink catkins when mature.

	Per 100	Per 1000
2 to 3 ft.	\$35.00	\$300.00
18 to 24 ins.	30.00	250.00
15 to 18 ins.	25.00	200.00
Liners	12.00	100.00

BEARDSLEE NURSERY

PERRY, O.

one will always find cynics. There will always be people who say it is not possible to make a success of an organization. There will always be those who are critical, those who find fault. It is not hard to find fault, and I suppose it is easy to sit back and be prepared to say, "I told you so" if something goes wrong. People will say that organizations or associations are run by groups, by cliques. I say that in any voluntary organization, certain individuals will do a great deal of the work—shoulder the burden of the responsibilities. It is impossible to get away from that, but the more people who take an active part in the affairs of the association, the less need there will be for a few individuals to do more than their share.

The reason that some persons are critical of others and are constantly finding fault is really that they are jealous of the success attained by others or, possibly, the recognition given to those who are willing to work. Every organization, every business, in fact, must have leadership, and it is fortunate for all that that leadership comes from those who, themselves, are most successful. It is gratifying to know that people are willing to give their time and their efforts for the betterment of their industry, and rather than be jealous of the success of others and the recognition they are given, one can do better by showing appreciation and commending rather than condemning, for all are interested in the same goal—the betterment of the nursery industry as a whole.

GIFT CERTIFICATE PLAN

Success with a new procedure to increase gift certificate use was announced in a British horticultural publication recently. With each order or catalog sent from the establishment by Garden Aids, a nursery and garden shop at St. Helier, Jersey, England, a card is enclosed, listing popular gift certificate items, with spaces for indicating the material desired and the amount of remittance. The reverse side of the card provides space for names and addresses of donor and recipient and the date on which the goods are to be shipped.

When one of the cards is returned to Garden Aids, the company records the amount of the remittance and sends a gift certificate to the recipient. The transaction is carried on as usual from that point. The system saves a customer the trouble of writing for a gift certificate or going to the nursery to purchase one,

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	100	1000
	rate	rate
Forsythia Lynwood Gold		
2-yr., T.	\$0.35	\$0.30
Dark Green Arborvitae		
1-yr. pot22	.20
Korean Boxwood		
1-yr. pot28	.22

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DOGWOOD

Cornus florida

Medium Heavy

4 to 5 ft., B&B.	\$2.50	\$3.50
5 to 6 ft., B&B, budded.	3.50	5.50
6 to 7 ft., B&B, budded.	3.00	6.50
7 to 8 ft., B&B, budded.	6.00	7.50

Cornus rubra

4 to 5 ft., B&B, budded.	\$7.00
5 to 6 ft., B&B, budded.	8.00

Euonymus alatus

2 to 3 ft., B&B.	1.75
3 to 4 ft., B&B.	2.50

Euonymus compactus

18 to 24 ins., B&B.	1.25
--------------------------	------

Cotoneaster divaricata

3 to 4 ft., B&B.	2.00
-----------------------	------

Bayberry

18 to 24 ins., B&B.	2.00
2 to 3 ft.	3.00

Juniper, Pfitzer

30 to 36 ins., B&B.	3.00
3 to 4 ft., B&B.	4.00

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FORSYTHIA LYNWOOD GOLD

	Per 100
Rooted cuttings, outside frame.	\$10.00
2 1/4-in. pots, 1-yr.	15.00
15 to 18 ins., 2-yr., XX.	35.00
18 to 24 ins., 3-yr., XX.	50.00

GILSON GARDENS
PERRY, O.



Scarff's Nursery, Inc. New Carlisle, Ohio

Special List — Top-Quality Stock — Finest Miami Valley Grown —

	Each 1000 rate
Barberry, Red, 3-yr., field	
18 to 24 ins.	\$0.35
24 to 30 ins. ....	.45
Caryopteris (Blue Mist), 2-yr. ....	.30
Cornus elegantissima, 18 to 24 ins. ....	.45
Cornus kelseyi (Dwarf Red Twig), 15 to 18 ins. ....	.35
Cotoneaster divaricata, 2 to 3 ft. ....	.80
Cydonia Japonica (Pink), 2 to 3 ft. ....	.45
Deutzia lemoinei compacta, 15 to 18 ins. ....	.25

Euonymus carrierei, Newport and sieboldi (Specimens B&B)	
15 to 18 ins.	\$1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50

Euonymus yedoensis (Bittersweet Tree)	
16 to 42 ins. ....	.55
Forsythia Arnold Dwarf, 15 to 18 ins. ....	.35
Forsythia Lynwood Gold and Spectabilis 2 to 2 ft. ....	.35
3 to 4 ft. ....	.45
Hamamelis vernalis (Winter Flowering Witch Hazel)	
2 to 3 ft. ....	.45
3 to 4 ft. ....	.55
Hydrangea A.G., 18 to 24 ins. ....	.40
2 to 3 ft. ....	.45
Hydrangea macrophylla Rosea No. 1 (Large French Pink) ....	.30
Hydrangea P.G., 2 to 3 ft. ....	.45

Hypericum kalmianum (Pot O' Gold). Profuse-blooming, hardy and wide- ly adaptable. A most attractive dwarf, compact shrub with silvery- blue foliage. Per 100	
15 to 18 ins.	\$40.00
18 to 24 ins.	45.00

Kolkwitzia amabilis, 3 to 4 ft. ....	.55
Lonicera, Gold Flame, 2-yr. vine35
Ligustrum Regel's (True Type), 18 to 24 ins.30
24 to 30 ins.35
30 to 36 ins.45

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Finest we have ever grown	
Lonicera fragrantissima	
2 to 3 ft.	\$0.40
3 to 4 ft.50
Lonicera maximowiczii sachalinensis, triple red	
2 to 3 ft. ....	.40
Lonicera zabeli, red, 3 to 4 ft. ....	.45
4 to 5 ft. ....	.60

	Each 1000 rate
Philadelphus virginialis, 2 to 3 ft.	\$0.45
Prunus tomentosa, 18 to 24 ins. ....	.25
2 to 3 ft. ....	.35
Rhodotypos kerrioides, 3 to 3 ft. ....	.40
Ribes, alpinum, 15 to 18 ins. ....	.45
Spiraea Anthony Waterer, 15 to 24 ins. ....	.45
Spiraea arguta, 2 to 3 ft. ....	.40
Spiraea prunifolia, 3 to 4 ft. ....	.45
Spiraea thunbergi, 2 to 3 ft. ....	.45
Spiraea vanhouttei, 3 to 4 ft. ....	.35
Tamarix Summer Glo, pink ....	.35

THE VIBURNUMS

Viburnum americana, 2 to 3 ft.	\$0.45
3 to 4 ft. ....	.55
Viburnum burkwoodi 30 to 36 ins., B&B	2.00
36 to 42 ins., B&B	2.25
Viburnum carlesii, 2 to 3 ft., B&B	2.75
Viburnum lantana, 2 to 3 ft. ....	.45
Viburnum lentago (Nannyberry) 3 to 4 ft. ....	.45
Viburnum pinnatifidum (Blackhaw), 2 to 3 ft. ....	.35
Viburnum wrightii, 2 to 3 ft. ....	.40

Willow, French caprea	
2 to 3 ft. ....	.20
4 to 5 ft. ....	.35

LINING-OUT EVERGREENS

Arbutus, Dark Green American 10 to 15 ins., 2-yr., TT. ....	.30
Juniper, Andorra 9 to 12 ins., T. ....	.20

SMALL FRUIT PLANTS

We have our usual good supply of Berry Plants. See our Trade List or send us your want list for quotation.

LINING-OUT STOCK

	Each 1000 rate
Barberry, Crimson Pygmy, 3 to 4 ins., T.	\$0.25
Euonymus alatus 2-yr., 4 to 6 ins. ....	.10
Euonymus yedoensis 2-yr., T., 6 to 9 ins. ....	.08
Cornus elegantissima 15 to 18 ins., T. ....	.20
18 to 24 ins., T. ....	.25
Hydrangea macrophylla rosea (New French Pink) ....	.20
Koeleruteria paniculata (Golden Rain) 2-yr., S., 18 to 24 ins. ....	.20
2-yr., S., 2 to 3 ft. ....	.30
Kolkwitzia amabilis 2-yr., T., 10 to 15 ins. ....	.12
Ligustrum Regel's (True Type) 9 to 12 ins. ....	.10
Ligustrum Vicary Golden, R. C. ....	.08½
Lonicera maximowiczii sachalinensis (Triple Red) 12 to 18 ins., T. ....	.10
Prunus subhirtella pendula (Weep- ing Cherry), 3-yr., S., 18 to 24 ins. 2 to 3 ft. ....	.25
.30	
Ribes alpinum, 6 to 9 ins., T. ....	.15
Syringa microphylla 3-yr., T., 12 to 15 ins. ....	.17½
Viburnum burkwoodi 2-yr., S., 18 to 24 ins. ....	.25
Viburnum tomentosum (Double File Viburnum) 6 to 12 ins. ....	.10
Viburnum wrightii 2-yr., S., 9 to 12 ins. ....	.08½

Quantity prices on request. Our wholesale price list contains many other sizes and varieties. Send for your copy today.

and it also suggests the idea to those who might not otherwise have considered it.

HOLDEN PLANTINGS ATTRACT

In less than three years the Holden Arboretum, Kirtland Hills, O., has recorded well over 3,000 species and varieties of trees, shrubs and vines in its plantings. Much of this material has been donated by nurserymen all over the country, and their contributions have stimulated horticulturally minded persons to visit the arboretum.

One of the main objectives of the Holden Arboretum is to provide plant materials—scions, cuttings and seeds—to nurserymen in this country and abroad. A large number of shipments of unusual material were forwarded to nurseries, aboretums, parks and individual patrons in the past year.

Some of the arboretum's recent

Nurserymen—Foresters—Businessmen—Taxpayers and Voters!

The entire Michigan nursery industry has gone on record as opposing the building of another nursery in southern Michigan by the forestry division of the Michigan conservation department for the following reasons:

Commercial nurseries in the same temperature zones can and will produce all the stock needed without spending one cent of the taxpayers money!

Michigan conservation department nurseries already sell over 75 per cent of the stock produced by them to the public—some 30 million.

Private nurserymen feel it is a waste of tax money for the state to increase production by one-third or to 40 million.

The cost of a state-built nursery is too high; \$181,000 of soil bank funds through the Clarke-McNary act will be granted and government payroll will be expanded.

Businessmen claim they can build the same production facilities for approximately 25 per cent of the state's cost, while some nurseries could expand present facilities for approximately \$10,000; quite a lot less than the state's \$181,000 in federal funds!

You will help Michigan residents plant trees regardless of where you live if a nursery is built by the Michigan conservation department.

If you don't feel you should (and we don't want you to do so) write your representative, care The House, Washington, D. C. and your senator, care of The Senate, Washington, D. C. But do it now; a post card will do.

Gordon McCurdy

(on behalf of the entire nursery industry and taxpayers everywhere)

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings.

\$12.00 per 100, \$100.00 per 1000.
Mature shrubs, 2 to 3 ft., \$50.00 per 100
Mature shrubs, 3 to 4 ft., \$60.00 per 100

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We have available a lighter grade of Daphne not quite up to our 6 to 8-in. potting grade, but a good heavy, 1-yr., field-grown liner, grown from a potted cutting. A real value at:

\$3.50 per 10; \$27.50 per 100.

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A block of 100 growing in the foreground of your sales lot, gives a bright yellow patch of eye-catching color. Our plants are ideally suited for potting or bedding. Nicely branched, 12 to 16 ins.

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Martin's Giant Hybrids

These enormously large-flowered beauties are related to the old mallows in name only. Varying shades of red, white and pink are included in our mixture. Excellent size for 1 or 2-gal. pot.

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25 each at the 100 rate. Please allow 2% for cash with order.

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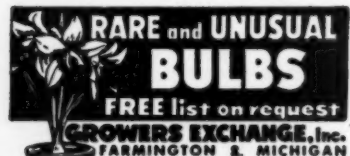


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ence, 637 p., \$6.00.

American Nurseryman

Chicago 4.

acquisitions that should provide interest are *Picea mariana beissneri*, *Ilex crenata luteo-variegata*, *Quercus robur pendula*, *Cornus florida nanum*, *Koeleruteria paniculata fastigiata*, *Tilia tomentosa erectum* and *Fagus sylvatica horizontalis*.

All visitors are made to feel welcome. Student tours are conducted, and lectures and tours are provided for garden clubs and nurserymen. These activities are becoming an important part of the arboretum's program.

Since the Holden Arboretum operates for the public benefit, it will continue to publish its contributions of technological progress and describe noteworthy plant introductions. Nurserymen are invited to visit the arboretum to see the new items in the plantings and gain greater appreciation of them.

Lewis Lipp

TWO EARLY DAY SHRUBS

[Concluded from page 13]

more interesting when leucothoe is used as part of the background and a few of its loose branches dip into the pool. Their arching habit provides a more interesting and gradual change between the rear of the pool and the larger shrubs in the background.

Deciduous shrubs that combine well with the smaller-leaved leucothoe (*L. axillaris*) are high-bush blueberry, male berry (*Lyonia ligustrina*) and such deciduous azaleas as *viscosa*, *rosea*, *nudiflora*, *mucronulata* and *calendulacea*. The reddish fall tones and soft greens of some of these plants aid in making the combination a pleasing one. Either species gets along well with witch hazel, sourwood, flowering or kousa dogwood, red chokecherry and many others.

The leucothoes are good, low, broad-leaved shrubs for a great variety of planting situations.

WILLIAM B. KEELOR DIES

William B. Keelor, president of Keelor Steel, Inc., Minneapolis, Minn., originator and designer of a steel grass barrier and other steel products for the garden, passed away suddenly March 25, at Northwestern hospital, Minneapolis, at the age of 49. Death was due to injuries sustained while riding his horse March 10.

Born at Gunnison, Colo., Mr. Keelor organized the Keelor Steel enterprise in 1949. The business will be

SPRING, 1957

Evergreens

Shrubs

Shade Trees

Fruit Trees

Amur River Privet, all sizes up to 3 to 4 ft., 3-yr., twice cut back.

Barberry *Mentorensis*, up to 2 to 3 ft.

Special price quantity lots.

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HYPERICUM HIDECOTE

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Rooted cuttings \$12.00

Potted liners 18.00

GOLDEN VICARY PRIVET

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Potted liners 18.00

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ORIENTAL MAGNOLIAS — SOULANGEANA ONLY

We have some well-budded Magnolia soulangeana in storage here. They can be picked up at planting time. Balled and burlapped as well as liners.

2 to 3 ft., B&B, \$2.50 each
3 to 4 ft., B&B, \$3.50 each
4 to 5 ft., B&B, \$4.50 each
12 to 18 ins., liners, \$40.00 per 100
18 to 24 ins., liners, \$45.00 per 100
2 to 3 ft., liners, \$55.00 per 100

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continued as usual, adhering to the policies of its founder.

He is survived by his widow, Marie, Wayzata; one son, William, Jr., St. Paul; a daughter, Mrs. Jack Olson, Roanoke, Va., and a grandson, Charles.

LETTERHEAD SELLS ROSE

A printed letterhead recently adopted by Brookdale-Kingsway, Ltd., Bowmanville, Ont., displays in a 2¼-inch strip along the left-hand margin a full-color photographic reproduction of a climbing rose the nursery is currently promoting. The rose is identified and priced at the bottom of the sheet, so that all correspondence from the nursery carries an eye-catching sales message. Printed in France on vellum paper, the letterhead is expensive, but the nursery believes the cost is justified by the effectiveness of this unusual form of advertising.

BOB DURRETT FLORIST, R. R. No. 4, Box 221, Louisville, Ky., is the new name and address of the former Lydian Durrett Florist, 4341 Preston highway, Louisville. Nursery stock will be grown on 12 acres at the new location, and landscape services will be available.

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Hydrangea P. G. (Tree Form)

Ornamental Trees

Grapevines, 1-yr.

Thorne Brewster

WILLOWBEND NURSERY

PERRY, O.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

ART OF LAYERING

As a means of vegetative propagation, layering is not fashionable, so that it is little practiced in our nurseries. This is a mistake; there are a number of reasons why layering is a useful method. Some plants are propagated more efficiently that way than any other, in spite of the seeming disadvantages.

Layering is not used much because, in most cases but not all, it is not a method that lends itself to mass production. Layering is awkward to do rapidly, and the layered plants are difficult to cultivate.

Plants that root poorly or not at all will usually layer successfully. Extremely difficult plants may have to be left attached to the stool plant two years. Some plants which can be readily budded or grafted should not be, because the understock suckers so badly. The filbert is an example, and named varieties are readily grown in quantity from layers.

Today most of the choice deciduous magnolias are being grown from cuttings; some are grafted, but they could just as well be layered. One advantage of layering is that it produces a much larger plant, with a saving of a year or two.

A young nurseryman could well learn to do more layering for several reasons. Not only will he get larger plants that will be salable more quickly, but he can do his layering when he is not so busy and he can remove the layers at times of his own choosing. The urgent need to remove them at a certain time is not there. He can also layer almost any type of plant, but a few are unsatisfactory. Fir and spruce side branches will layer, but after being transplanted they seem to be reluctant to send up a leader and make a symmetrical plant.

While layering may not lend itself to quantity production, for some years many thousands of *Hydrangea pinnatifida* were grown from layers for the wholesale trade.

Of course, the plants that layer the best are those which send up many stem shoots in a clump that can be easily bent over and covered with soil. Some plants, like *Jasminum nudiflorum*, *Forsythia suspensa* and

Cornus stolonifera, tend to make natural layers when their tips bend over and root. At the other extreme is the case where layering is the one sure way of successful propagation of a single rare plant.

Shrubs and evergreens are not the only plants that can be layered. My father used to layer certain herbaceous perennials of the type which form a many-stemmed, low clump, like *Phlox subulata* and *Dianthus* sp., by putting a mound of soil in the center. He would soon have a whole fringe of little plants that he could line out.

Any condition where there is constant moisture and darkness will en-

courage the formation of roots on a stem. Old English boxwood will often get so thick in foliage, with old, wet, dead and decaying leaves lodged among the twigs, that roots will be initiated. This is the same principle used in aerial layering. Aerial layering has long been practiced on ficus and a few other plants in Florida, but not to any extent elsewhere. Shortly after World War II, layering increased when a new plastic cover was invented that would hold the moisture in but permit some air to pass. The process required scarring the twig where it is pencil thick, wrapping the twig with moist sphagnum and then covering with plastic.

For the young nurseryman, regular layering is done by bending a shoot down until it can be covered with soil to the depth of four inches, but with the tip extending out into the air. The loop that is buried is scarred or sliced half way through, to encourage initiation of roots. Hormone powder can be put on the cut. Sta-

TREE LIST FOR SPRING

	Per 100	Per 1000	Per 1000 in 10,000 lots
Colorado Blue Spruce			
(3-0), 3 to 6 ins.	\$ 6.00	\$ 30.00	....
(3-0), 6 to 10 ins.	10.00	50.00	....
Black Hills Spruce			
6 to 9 ins., XX	20.00	150.00	....
10 to 15 ins., XX	32.00	300.00	....
White Spruce			
(3-0), 4 to 8 ins.	10.00	42.00	40.00
Norway Spruce			
(3-0), 6 to 12 ins.	10.00	45.00	42.50
Douglas Fir			
(2-0), 3 to 6 ins.	8.00	30.00	28.00
4 to 8 ins., X	15.00	75.00	....
8 to 12 ins., X	20.00	125.00	....
Mugho Pine, Tyrolean, top-sheared			
(3-0), 3 to 5 ins.	12.00	60.00	....
Mugho Pine, Swiss Mt., sheared			
(3-2), 4 to 8 ins.	25.00	160.00	....
Taxus cuspidata capitata, sheared			
6 to 9 ins., XX	55.00	....	....
Riga Scotch Pine			
(2-0), 2 to 3½ ins.	5.00	16.00	14.00

TERMS: Cash with order, please, unless established credit. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$10.00. Packing charges included in price of trees.

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ples made of guy wire about six inches long will help hold the shoots from flying up. I know a woman gardener who layers a number of things and uses a brick to hold them down.

Layering can be done at any time of the year; if there is a bad time, it is just as new growth is being made, but it is not impossible then. Except the really difficult ones, most plants will root the first year. Sometimes it may be necessary to prune out the heavy central part of a plant to encourage it to make low slender side shoots that are easy to layer.

MICHIGAN PLANT TESTS

The soil conservation service is planning to establish a small plant materials center in southern Michigan to try out new species of woody and herbaceous planting materials which might be of value in a soil conservation program. According to E. C. Sackrider, state conservationist, soil conservation service, East Lansing, Mich., the federal agency does not intend to produce this material in quantity, nor to sell or give it away.

If some test materials give indications of being valuable to the soil conservation service, scattered plantings will be made throughout the midwest to determine the plants' usefulness in a total soil conservation program. Material found to be useful in such a program will then be made available to commercial growers for reproduction to provide stock for sale to landowners.

FLORIDIAN'S LIFE TOLD

The colorful career of James Bathrick, Bathrick's Nursery, Englewood, Fla., subject of a recent article in a local newspaper, includes teen-age work with a traveling circus, which he left his home at Hornell, N. Y., to join, long-time operation of Bathrick's Flying Circus and overseas service in two world wars.

Becoming interested in horticulture when he was stationed near the Brisbane Botanical Gardens, Australia, during World War II, Mr. Bathrick started studying botany at that time and opened a small nursery and a tourist camp at the Englewood location upon his discharge from the service. He pursued his horticultural studies at night classes and was finally able to discontinue the tourist camp and devote full time to his nursery. A member of the Florida Nurserymen and Growers Association, he is also a garden columnist for a local newspaper.

NIKKO BLUE

Hardy Hydrangea



The Most Beautiful Hardy Blue Hydrangea

It has withstood temperatures of 20 degrees below zero. The tops die down to the ground every winter, but give them a little mulch protection and the crowns will grow into bushy shrubs in one season, 2 to 4 ft. tall with attractive, luxuriant foliage and great masses of flowers.

Because the flowers are borne on the new wood, you get blooms every year and lots of them. It is not at all unusual to see flower heads more than a foot across and the shrub completely covered with them—a wonderful show.

In alkaline soil the flowers are pink; in acid they are blue. It's easy to change alkaline soil into acid with aluminum sulphate (two tablespoons to a gallon of water).

	Per 10	Per 100	Per 1000
No. 1, field-grown	\$10.00	\$90.00	\$850.00
Medium, field-grown	8.50	75.00	700.00
30 at 100 rate. 300 at 1000 rate.			

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PERENNIALS

Transplanted Field-Grown Stock

	Per 100
1800 Lythrum, Morden Gleam	\$17.50
4000 Lythrum, Morden Gleam, Medium size	12.00
700 Shasta, Diener's Giant	17.50
400 Veronica, Icele, white	17.50
300 Veronica, Minuet, dusty pink	25.00
1000 Vinca, Bowles	17.50
1500 Phlox subulata, Wild Rose	20.00

LINERS

Heuchera, selected red	9.00
Veronica, Minuet, dusty pink	15.00
Iberis, Purity, very dwarf	10.00
Iberis, Snowflake, large-flowered	8.00
Lythrum, Morden Rose	10.00
Phlox Subulata, Wild Rose	12.00
Phlox Subulata, Alexander's Surprise	12.00
Carnation Grenadin, assorted	3.50
Shasta, Diener's Giant	4.50
Mums, Minnplink, Minnbronze	20.00

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Bushy, 4-yr., 15 to 18-in. plants,
\$65.00 per 100. Ideal for canning
or growing on.

Finished Viburnum carlesii and
Viburnum rhytidophyllum in all
grades through 3½ ft. available

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Seedlings—Transplants
Finished Stock
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Finest Quality
PERENNIALS and SHRUBS

Write for complete trade list.
KINGWOOD NURSERIES
MENTOR, O.

Seedlings and Transplants

NEWPORT NURSERY CO.
NEWPORT, MICH.

Subirrigation Can Save Labor

By Donald P. Watson

Skilled labor, required for the proper maintenance and watering of potted ornamentals in the retail nursery sales lot, is expensive and difficult to obtain. This circumstance frequently leads to ineffective watering and faulty irrigation, defects which can be a source of tremendous loss to the grower and retailer of potted nursery stock.

Experimentation at Michigan State University in 1955 and 1956 has demonstrated the merit of new irrigation methods which decrease the amount of skilled labor necessary to produce high-quality plants. The Michigan project was designed to compare two systems of irrigation for potted nursery plants: Hand watering on the surface of the soil in pots (surface irrigation) and automatic watering of plants from beneath (subirrigation). For a number of years, greenhouse growers have found large savings in labor and operating costs through the use of the latter system.

In the tests, subirrigation was shown to decrease watering time by one half. On top of this, the need for skilled labor to water potted nursery stock was eliminated because subirrigation greatly simplified watering procedures. It was found that, as the basins of the subirrigation beds were being filled with water, the worker might fertilize, weed, space or spray. With conventional hand watering, however, it was necessary to maintain and water separately, which doubled the time required for these operations.

The subirrigated plants received 1.98 times as much water as surface-irrigated plants which were thoroughly watered. This figure would indicate that hand-watered plants may frequently receive too little water. Generally speaking, however, there was no apparent difference between plant growth in the subirrigated and surface-irrigated plots.

The following plants were used for the irrigation trials: *Pinus mugo*, *Euonymus fortunei*, *variegatus*, *Taxus media hicksii*, *Philadelphus coronarius aureus*, *Clethra alnifolia* and *Rosa* *Else Poulson*.

The surface irrigation beds were constructed of 2x4-inch and 2x8-inch lumber bolted together. Two subirrigation beds were constructed of

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Steele's 1956 Mastodon Seed will be sold only in the Originators' Pack. Any seed not in the Originators' Pack is not genuine Steele's.

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P. O. Box 4555

2715 S. E. 39th Ave., Portland 2, Oregon

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FLORAL GARDENS INC.
ROSLYN HEIGHTS, N. Y.

PEACH PITS

Southern-Collected—High Germination

About 4000 per bushel, \$2.95

About 6000 per bushel, \$3.85

Sample, quantity or carlot prices on request. Contract-growing fall delivery peach, plum, apricot trees, \$175.00 per 1000; \$20.00 per 100; \$3.00 per dozen.

RIVERDALE NURSERIES
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EVERGREENS™

Growers of Quality Evergreens
Lining-out Stock a Specialty

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EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

AMERICA'S BEST SOURCE FOR HARDY PLANTS

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Gardens



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is our specialty.

Bed stock—Liners

Finished—Specimen.

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EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.



**BOSLEY
NURSERY**
MENTOR O.

PIONEERS IN HOLLY

concrete. A 1-inch layer of pea gravel was placed on the bottom of each bed to allow for drainage of both irrigation and rainfall. Each sub-irrigation bed was equipped with a drain which facilitated rapid removal of water after the soil in the pots was sufficiently moist.

In the interest of economy, some Michigan nurserymen have replaced the concrete basin with one lined with polyethylene, which worked satisfactorily but was not so highly recommended as the more permanent concrete.

These experiments, for which nursery stock was provided by Begick Nursery, Bay City; Armintrout's Evergreen Nursery, Allegan; the Cottage Gardens, Lansing, and Light's Tree Co., Richland, all of Michigan, show that subirrigation, by decreasing watering time, permitting combined maintenance and irrigation and eliminating the need for skilled labor in watering operations, can substantially decrease the production cost of potted nursery crops.

MAIL-ORDER SEAL DRIVE

Members of the National Mail Order Nurserymen's Association are being urged by the group's publicity committee to use the newly adopted seal of the association wherever appropriate in their advertising programs. The drive is part of an effort to take full advantage of recent garden magazine publicity in establishing the seal as a well-known symbol of reliability in the mail-order field.

The emblem is intended to indicate that the nursery displaying it, as a member of the national organization, is pledged to maintain the code of ethical trade practices set up by the N. M. O. N. A. during the past summer in cooperation with the American Association of Nurserymen and the federal trade commission.

STUDENTS' SHOW PROJECT

The product of an unusual project, sponsored by John C. Van Valkenburgh, of Van Valkenburgh & Vogel Nursery & Landscape Co., Dallas, Tex., was on display at a flower show held recently at Fair park, Dallas. Each of five students from the school of landscape architecture, Oklahoma Agricultural and Mechanical College, Stillwater, submitted a plan and perspective drawing for a garden display to be used at the flower show to a board of judges composed of professional landscape men.

The judges used the following

1957 WHOLESALE STRAWBERRY PRICES !

PREPAID PACK-OUT PRICES

EVERBEARING

	25	50	100	250
Gem	\$1.10	\$1.85	\$3.25	\$6.25
Superfection	1.10	1.85	3.25	6.25
Streamliner	1.25	1.85	3.25	6.25
20th Century	1.25	2.00	4.00	8.50
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Sparkle	1.00	1.40	2.20	4.75
Robinson	1.00	1.40	2.20	4.75
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Pack-out prices quoted above are what each order will cost you shipped promptly and prepaid to your customers under your own tags, or we furnish tags without our name appearing on them. Pack-out shipments are guaranteed to satisfy your customers.

5 per cent off on above direct pack-out strawberry prices for cash with order or 30 days' payment.

Strawberry plants packed for store and lot sales in attractive packages of 25 plants. Prices are 35¢ each, carton for Everbearing, except 20th Century, \$1.00, and Red Rich, \$2.50. Junebearing kinds are 50¢ per carton, all F.O.B.

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Conservation grade, 3 mm.	Per 1000
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Plants will be top and root trimmed prior to shipping. All prices F.O.B. Elsberry. No packing charge.

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FORREST KEELING NURSERY
Hugh Stevenson, Prop.
ELSBERRY, MISSOURI



FINE QUALITY DOUGLAS FIR TRANSPLANTS

	Per 100	Per 1000
Douglas Fir, X, 4 to 8 ins.	\$15.00	\$ 75.00
Douglas Fir, X, 8 to 12 ins.	20.00	125.00

This stock of transplanted Douglas Fir is of fine quality, very well rooted and with good tops.

Refer to page 63 for general ad and terms.

MATTHEWS NURSERY HARBOR SPRINGS, MICH.

Telephones: 123, 48 or 732.

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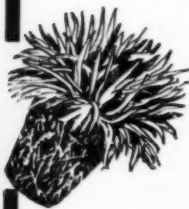
NOW feature any type of... **ZOYSIA**

\$ and make money, satisfy customers on every sale —without inventory.

Here's a profit line-up for nurserymen that is money in the bank. BECK'S—America's oldest Zoysia growers—puts into your hands a selling package you can push with confidence—at prices that mean fast action, good markups, genuine profits.

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Beck's allows you to feature all 3 varieties depending on local conditions—all with every wanted growing advantage that has made Zoysia the number one lawn grass.



Beck's gives you either low cost turf squares or fast - spreading, growth - guaranteed, pot - grown plants with uncut roots in a ball of organic plant food.

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OLDEST ZOYSIA COMPANY IN U.S.
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criteria in the selection of the first place design: Adaptability of design to site, the design itself (imaginative solution of the problem), presentation, use of both construction and plant materials and budget handling (the design budget was set at \$500 to \$600).

The first-place winner became the landscape architect in charge of executing his winning plan. The second-place winner became the landscape contractor, and the third-place winner became foreman. The other students assisted in the production of the winning design.

FLORIDA NURSERY GROWS

Southern States Nurseries Co., Inc., Macclenny, Fla., was the subject of a recent feature article in a local newspaper. The article stated that the business was established as the Griffing Interstate Nurseries in the 1880's. In 1934, Senator T. J. Knabb took over the nursery in association with Edwin G. Fraser and J. B. Fraser, the last-named acting as manager. Later, Southern States Nurseries, Inc., was formed, with the late Lucius Knabb and the Messrs. Fraser as officers. At Mr. Knabb's death, his one-third interest was taken over by his sons, G. C. and R. E. Knabb. The firm is now said to be among the largest of its kind in the south.

Senator Edwin G. Fraser, president of the corporation, reported that the nursery now has 600 acres under cultivation and that the sales volume last year rose to \$100,000, with trade in 14 southeastern states. Most of its shipping is by truck, such shipments going as far north as Virginia. The company employs 60 men and an office staff to handle the expanding trade.

SOUTH FLORIDA COURSE

[Continued from page 11]

cause of inaccurate information regarding the breeding cycle of the fly. Previously, laboratory information had shown a cycle of about 15 days from egg to adult, but further experiments demonstrated that this breeding cycle can be delayed by cool weather to a maximum of 108 days. Hatching time alone can vary from 48 hours at 90 degrees Fahrenheit to 15 days at 55 degrees. The spraying programs have been altered to compensate for the possibility of an increased life cycle, and according to Mr. Denmark, complete eradication is expected in the near future. The 46,000 traps now in use, however, will continue to be checked for 18

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DWARF PEARS

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	Each	Each
	Per 30	Per 250
11/16-in. cal. and up, 4 to 5 ft.	\$0.90	\$0.85
9/16 to 11/16-in. cal., 4 ft.80	.75
7/16 to 9/16-in. cal., 4 ft. ....	.65	.60
5/16 to 7/16-in. cal., 3 to 4 ft. ....	.50	.45

CUT-LEAVED WEeping BIRCH

(Betula alba laciniata)

1000 in the 6 to 8-ft. size. Prices on request. Tell us how many you are interested in.

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In the following varieties — Burbank, Italian Prune, Lombard, Reine Claude, Stanley Prune, Early Golden (New Canadian Yellow). All sizes from 5/16 to 11/16-in. cal.

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GARDENIAS

MYSTERY FORTUNE!

24 to 30 ins. **\$0.75**

NANDINA..PHOTINIA SERRULATA

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Write for wholesale list.

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AMERICA'S MOST WANTED PLANT

AMERICAN HOLLY

(Cuttings from Choice Berry Plants)

ILEX OPACA FEMINA,

	Per 100	Per 1000
8 to 10 ins., 2¼-in. pots	\$25.00	\$225.00

Special prices on 2500 or more.

Many Other Named Varieties



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DIAL: 82-5689 — Night Phone: 82-5680,

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months after the last fly has been found.

A plea for more extensive reesarch on lawn diseases was made by the last speaker of the day, Dr. T. A. Freeman, plant pathologist, agricultural experiment station, University of Florida. Diseases have to be recognized before they can be controlled, and little research has been done in Florida, where conditions are ideal for the development of lawn diseases. Pointing to the lack of winter weather here to kill or arrest the spread of disease, Dr. Freeman said that turf grasses are necessarily susceptible to diseases because frequent mowing and edging leave open wounds that are conducive to disease entry. Improper watering practices were also cited as causing grass diseases.

The program was under the auspices of the Florida agricultural extension service in cooperation with the Florida Nurserymen and Growers Association, the South Florida Garden Supply Association and the Dade county vocational agricultural department.

ED BEU, JR., and his wife recently opened the Green Thumb Nursery, near Jacksonville, Tex.

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Ilex burfordi	Pfitzer Juniper	Ligustrum lucidum
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Transplanted specimens.

5 to 6 ft., 6 to 7 ft., 7 to 8 ft., 8 to 10 ft.

THE R. L. HAAG NURSERIES
Rt 3, JEFFERSONTOWN, KY.

PLANT NOTES HERE AND THERE

By C. W. Wood

Lysimachia Punctata

Once upon a time I was foolish enough to write a few words of praise for that inveterate spreader, *Lysimachia punctata*. And those words are still coming home to roost. Just a few days ago there came a sharp criticism from a reader who had used it in one of his plantings, where it had taken over most of the border and part of the adjacent lawn. Since receipt of that letter, I have looked up what I said about the plant and find that it was plainly pointed out that the plant "as usually used in gardens is a rampageous weed." And again: "It is not to be trusted with inexperienced gardeners or those who are too busy to keep it under control." For instance, I had a painful experience with it in my younger days when I planted it among primroses in a shady part of the garden, thinking to provide the primroses with ground cover which would also give a long season of yellow bloom. Needless to say, the venture was disastrous to the primroses. But this loosestrife does have its uses.

Generally speaking, it must be used in places where its spreading habit can be easily controlled. I am reminded of a garden that I formerly visited, where the plant was used effectively and, from the gardener's standpoint, easily. There, I was told, the plant was a summer-long joy, usually showing enough pretty yellow flowers on its 18-inch growths to create a pleasing picture. Many of the best effects in that lovely garden were what the gardener called happenstances. But he told me that the way he used this loosestrife had been described in an English periodical at the time he was trying to make the plant behave. As a result of the article and his own vision, he had a ribbon of it, two feet wide and more than 100 feet long, planted against a dry retaining wall, with a gravel walk on the other side. The plant could not mount the wall, and construction and chemicals kept it from the path. The entire planting was under a canopy of beech and maple limbs. The moral of the story, it seems to me, is that one must find a place where the plant can be used generously and can still be restrained

from reaching out over the entire garden.

Even in my own poor way, I get much pleasure from *L. punctata* in a planting with myrtle in the shade of a lilac hedge, where the two fight it out for supremacy. The myrtle gives its contribution of blue in late spring, and the other a display of yellow later in the season. Other devices, such as planting against a thick-growing hedge, will suggest themselves to the imaginative gardener.

Erodium Chamaedryoides

In a recent letter, a New England amateur gardener remarked that he liked *Erodium chamaedryoides* rose-

um so well that he took up several large squares of a clump and wintered them in a pit to be sure of having live stock the following spring. I should do the same if I had time to garden as I should like, because it is one of my favorite rock garden plants. I wish I could state just how hardy it is, but reports from gardeners throughout the land have been so conflicting that no positive statement can be made. I can say, however, that it is not hardy this far north. Its native range in Corsica and the Balearic islands may give some idea of what to expect.

If the ability to bloom over a very long period is sufficient recommendation for a plant, this tiny heron's-

TREES of REPUTATION

If you live in west Texas, New Mexico, Colorado, western Oklahoma—you can't afford not to plant our evergreens, shade trees and shrubs. Properly grown; properly balled and burlapped; well dug with plenty of good roots. Rich soil. Only hardy varieties grown; specializing in Junipers. Several thousand to offer, landscape grades.

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bill should meet with universal approval. Add to the foregoing that the plant makes dwarf tufts of pretty, wavy-margined, glossy, green leaves which support an incredible number of flowers—pink-veined white in the type and lovely, soft pink with deeper pink veins in the variety roseum—produced on 2-inch stems from May until heavy frosts, and one has something to be enthusiastic about. And that is not all, for the plant is foolproof in any well-drained soil in northern sun, or in part shade in other climates.

It is preferably grown from cuttings, I believe, and best results were had in northern Michigan when clumps were introduced in gentle heat in February or early March, cuttings were taken when growth commenced (with a heel of old wood) and these pieces were rooted over gentle bottom heat. I suspect that a frame with a soil-heating unit would be ideal, although I never tried that method.

Linum Tenuifolium

I regret that I cannot do justice to a question recently received on *Linum tenuifolium*, because I never have found out what the name means. Notes made on plants bearing that name during the years reveal the fact that the name covers a number of flaxes in the trade; a plant that looks like *L. salsoloides* to me; a 1-foot tall, violet-colored plant; a plant that has all the earmarks of a narrow-leaved form of *L. perenne*; a short-lived (perhaps tender) one of pale hue, and one that looks like a very close relative of *L. austriacum*. I notice that "Hortus Second" calls it a shrubby plant, to a foot in height, with pink-lilac or white flowers with purple veins or centers, native to central and southern Europe. Farrer says it "is a furry, fine-leaved species of southern Europe, with rather the habit of *L. austriacum*, but scantier, and with rose-lilac or pink flowers." As these two authorities seem to agree, in part at least, it may be assumed that *L. tenuifolium* is a plant of that kind. But to find it in gardens and nurseries is another matter. All of which means little to our inquirer. If he is looking for a good blue-flowered flax, I suggest *L. austriacum*.

This flax (the last named) in its rich blue form is one of the loveliest of blue-flowered perennials, prodigious of blooms, lovely in color, easy of culture and permanent (for a flax). Of course, especially from garden-saved seeds, it varies, like all

ROSES

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PATENTED	Each 1 to 10	Each 10 to 25	PATENTED	Each 1 to 10	Each 10 to 25
Chrysler Imperial (Pat. No. 1167), hybrid tea, red	\$1.60	\$1.40	Peace (Pat. No. 591), hybrid tea, creamy yel.	\$1.60	\$1.40
Circus (Pat. No. 1382), floribunda, yel.-orange	1.60	1.40	Queen Elizabeth (Pat. No. 1259), grandiflora, rose-pink	1.60	1.40
Fashion (Pat. No. 789), floribunda, coral-peach	1.25	1.10	Redcap (Pat. No. 1292), floribunda, red	1.25	1.10
Goldilocks (Pat. No. 672), floribunda, yellow	1.15	1.00	Roundelay (Pat. No. 1280), grandiflora, red	1.60	1.40
Mirandy (Pat. No. 632), hybrid tea, garnet-red	1.40	1.25			
NONPATENTED—\$6.50 per 10; \$60.00 per 100.					
Ami Quinard, red			Edith Nellie Perkins, pink		
Caledonia, white			Etoile de Hollande, red		
Christopher Stone, yellow			Floradora, floribunda, red		
Condesa de Santiago, red and yellow			Frensham, floribunda, red		
Crimson Glory			Mrs. Du Pont, yellow		
Editor McFarland, pink			Mrs. E. P. Thom, yellow		
CLIMBERS—\$6.50 per 10; \$60.00 per 100.			ROSES		
Blaze			Paul's Scarlet		
3-yr., B&B specimens—better patented varieties, \$3.00 each.			2-yr., container-grown—better patented varieties, \$2.50 each.		
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Mrs. Du Pont			Crimson Glory		
Ask for Complete Wholesale Price List			Picture		

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GAREEI ARIZONA CYPRESS

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2½ to 3 ft., specimens, B&B	\$2.50
3 to 4 ft., specimens, B&B	3.00
4 to 5 ft., specimens, B&B	3.75
5 to 6 ft., specimens, B&B	4.50
6 to 7 ft., specimens, B&B	5.50

30 or more take this 100 rate.

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POTTED LINERS

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B&B sizes to trucks only.

HUMPHREYS LANDSCAPE SERVICE
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CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha.

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Wight NURSERIES CAIRO, GA.



AARS winners and 130 other popular varieties. In attractive, colorful packages or bare roots.

Beautiful shade, productive tool Prolific varieties. Sizes 1½ to 12 feet. In attractive packages or bare roots. Get stock list and prices.

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Evergreens, Trees

Deciduous Shrubs, Roses

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Invite Orders for Fall, 1957.

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ANTHONY LAKE NURSERY, INC.
PINEOLA, N. C.

Please mention the **American Nurseryman** when writing advertisers

other flaxes; so it takes some searching to find the best form.

Iris Harriet Thoreau

Not often is space used in this column for named iris varieties. That is true not because modern varieties are unworthy of attention, but rather because they are so numerous and come so rapidly there would be no space left for anything else if all the good new iris, chrysanthemum, gladiolus and day lily varieties were noted. Occasionally, however, a combination of circumstances makes it advisable to break silence. Such a combination, I believe, surrounds Harriet Thoreau.

Back in the days of World War II, Paul H. Cook, the celebrated Indiana iris breeder, introduced this pink iris which failed at the time to be accepted as widely as it deserved because of gardeners' preoccupation with war duties. Since the end of the war, it seems to have advanced in favor until now it is seen in quite a few nurseries, and it merits the attention of anyone who grows iris varieties. It is a fine, upright plant, with clear (note the word clear) orchid-pink flowers of large size (much larger than other varieties of its age and class), freely produced—characteristics which make it outstanding in its group.

Galium Boreale

Late last summer I had a letter from a small-town florist asking me to stop to see a new flower that he had been gathering from the surrounding wild lands for use as a substitute for commercial baby's breath. I was sure that he was using the northern bedstraw, Galium boreale, and I was right, as a visit to his establishment proved. The incident points out one virtue of a useful native plant now seldom seen in gardens.

If all statements were taken as they sound, which is often the case, gardens would be, and would remain, without some splendid ornaments. For instance, it would not be necessary to read far in horticultural literature to find statements to the effect that bedstraws are weedy plants. The writers of these derogatory remarks probably meant that many kinds are rather drab-looking or that the ones they (the writers) had grown or seen were too willing to self-sow in the garden, thereby acting like a weed. Those disparaging comments fail to take into account the pleasing effects in landscape pictures and in cut flower

Broad-leaved Coniferous Evergreens

Write for complete price list.

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STRAWBERRY PLANTS

	Illinois-Grown	Per 1000
Blakemore		\$ 7.50
Senator Dunlap		7.50
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Armstrong		8.50
Robinson		8.50
British Sovereign		11.00
Gem (Everbearing)		12.50
Superfection (Everbearing)		12.50

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arrangements which bedstraws are capable of creating.

Galium boreale reaches a height of one to three feet, depending upon soil, fertility, moisture and exposure. Its ample panicles of small white flowers are delightful in both border and bouquet because of their airy, softening effect. Growing naturally on rocky banks and shores, often in open woodlands, it may be approached by the gardener with confidence, for it does well in any well-drained soil in sun and part shade. Incidentally, the literature calls it an acid soil plant, but that is evidently only partially true, for I find it in the wild in both acid and alkaline soils. Because it spreads freely in congenial surroundings by means of underground stolons, it should not be placed near delicate plants.

Lilium Jillian Wallace

After going over in my mind all the hybrid lilies that I have seen, I can say with confidence that the new Australian, Jillian Wallace, from the hands of the lily hybridizer, Roy A. Wallace, is the finest thing to date. And I find that lily experts are unanimous in the opinion that it will be tops in its class for years to come. Its 5-foot stem, crowned with six or seven immense (to eight inches across) flowers, red (Tyrian rose, the experts call it), with crimson spots and a white margin, presents a breath-taking sight. The addition of a pleasing fragrance produces something out of this world. It is said to be as easy and as permanent as a healthy auratum.

Lupines and Hardwood Ashes

One morning while cleaning the fireplace of hardwood ashes I was reminded of their value in gardening. I was also reminded of a particular garden in which modern lupine hybrids are featured. The display is so spectacular that I go there year after year just to absorb the beauty and inspiration of those wonderful gifts of nature. All the more wonderful to me is the fact that neighbors of this gardener either cannot do a thing with lupines or do not have the patience to satisfy the plant's whims. My friend of the lupine garden tells me that he depends on hardwood ashes as the stimulant needed for a spectacular display. Of course, the ashes are not the only factor in his success, for he has studied the plant and its reaction to different environments and treatments from seed to maturity, but the hardwood ashes appar-



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Robinson60
Streamliner Everbearing75
Superfection Everbearing75
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24 to 30 ins.15c	

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ently supply the final fillip that turns the trick for him.

Propagating Trollius

Despite all that has been said about growing trollius from seeds, I still think that division is the quickest road to profits in Trollius europaeus and its named forms. Some of the latter must be propagated vegetatively if they are to remain true. However, let us assume that either the type or T. Golden Queen, which comes very true from seeds, is the subject of which rapid increase is wanted. Fresh seeds planted in August or September in an outdoor frame should germinate well the next spring, but the seedlings grow slowly under ordinary nursery care, and it usually takes two or three years to get a good, flowering-size plant. On the other hand, clumps divided as soon as flowering ceases yield flowering plants the following year. Of course, all trollius plants need a moist soil at all times; a rich soil is also desirable.

BILTMORE AZALEA DATES

An exceptionally spectacular display of azaleas is expected this spring at Biltmore House and Gardens, Asheville, N. C. Present indications are that this showing will begin four to six days earlier than usual, according to Dr. Fred J. Nisbet, superintendent of the estate. Early types should be in good bloom sometime between April 21 and 25. The main display should last from May 1 until after May 15. The native flame azalea, and its relative, Rhododendron bakeri, will provide brilliant color for five weeks starting about May 10. A few other species carry scattered bloom through August.

The main plantings of azaleas are in the Beadle Memorial Azalea Garden, where 35 acres are landscaped with these plant aristocrats among unusual conifers and magnolias. Other thousands of azaleas and broad-leaved rhododendrons line the 3-mile approach road to the mansion.

CORRECTION

In a reader's letter published in the March 15 issue of the American Nurseryman, it was stated that the soil conservation service was planning to establish a state nursery in southern Michigan with \$181,000 of Clarke-McNary funds. E. C. Sackrider, state conservationist, soil conservation service, United States De-

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partment of Agriculture, East Lansing, Mich., points out that the reader apparently confused the soil conservation service with the Michigan department of conservation, as the soil conservation service is not contemplating the establishment of a nursery in southern Michigan, nor does it receive Clarke-McNary funds.

FORM ATLANTA GROUP

Atlanta nurserymen held an organizational meeting March 13 at the Cherokee hotel. Officers elected were Guilford B. Grant, Atlanta Garden Center, president; Cecil F. Hill, Norman Butts Nursery, vice-president, and Mrs. Willette E. Hume, secretary-treasurer. The group will meet on the second Wednesday of each month.

The bylaws committee appointed at the meeting included William Monroe, Jr., Monroe Landscape & Nursery Co.; Harold E. Bailey, Bailey Landscape Co., and Charles Bell, Atlanta Garden Center. The following program chairmen were named: For April, Jule Davis, Hickory Hill Nursery; for May, Harold Bailey; for June, Frank A. Smith, Frank A. Smith & Co., and for July, Donald Hastings, H. G. Hastings Co. Willette E. Hume, Sec'y.

GERMAN EXHIBITION

The 6-month horticultural exhibition which has been held in Germany every two years since the war will be staged this year at Cologne, from May to October, inclusive. Members of the commercial Central Association of German Horticulture and growers from Holland, Belgium, France, Switzerland, Italy, Austria and Denmark will exhibit their best stock and latest introductions in the extensive outdoor gardens and exhibition halls of a park especially created for the event on the banks of the Rhine. The German horticultural society and the city chosen as host are cosponsors of the biennial show.

Landscape gardeners and garden supply dealers will also compete at the exhibition, which this year is emphasizing small gardens for the home. Special events, featuring cut flowers, fruits and vegetable produce, are scheduled in the exhibition halls throughout the 6-month period.

JAMES SHEPHARD, Wickford, R. I., a former baseball player, recently purchased the Allendale Nurseries, 3710 Haines road, St. Petersburg, Fla. J. T. Porter, St. Petersburg, was named manager.

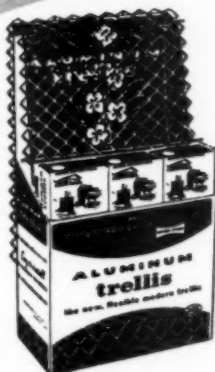
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Package No.	Contents	Width	Sh'pg. Wt. per Ctn.
*T-10	10 ft. per box 6 boxes per carton	24"	30 lbs.
**T-25	1-25 ft. coil	24"	30 lbs.

*Contains 6 boxes of 10 ft. coils in master display carton
**Contains 1-25 ft. coil sufficient for making 2 to 5 trellises

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NEW "Safety Edge"

- NEW reinforced "Safety Edge" rounded edge at top and bottom
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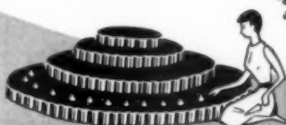
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Package No.	Contents	Girth	Wt. Lbs. per Ctn.
G-4	6 coils, 40 ft. each per ctn. Economy weight	4"	20
G-6	6 boxes, 40 ft. coils per ctn. Heavy weight	4"	25
*G-8	6 coils, 40 ft. each per ctn.	8"	40

*8" grass stop against deeper rooted grasses and for making a "gardenette"



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CALIFORNIA ASSOCIATION OF NURSERYMEN

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PENINSULA CHAPTER

Harry Joy, supervisor of flower seed production for the Ferry-Morse Seed Co., Mountain View, was the principal speaker at the March meeting of the Peninsula chapter, California Association of Nurserymen, held at the Villa Chartier, San Mateo. Mr. Joy told of the improvements made in many annual flowers. He illustrated his talk with color slides and was assisted by Tom Reynolds, of the Ferry-Morse organization.

William E. Schmidt, Schmidt Nursery, Palo Alto, spoke briefly on pricing for bedding plant profit, pointing out the main obstacles to profit in selling bedding plants at the retail level. These are the cost of salesclerks' labor, normal plant deterioration and losses due to seasonal changes. Most nurserymen fail to take a realistic attitude toward these pitfalls and price their bedding plants too low.

Ralph Bernstein, Schmidt Nursery, Palo Alto, presided over the plant table. Walter Borchers, W. B. Clarke & Co., San Jose, showed flowers of *Magnolia soulangeana* and *M. stellata*; Vernon James, James Rare Plant Nursery, Campbell, brought flower specimens of *Camellia reticulata*, including the All-America camellia selection, *Cinderella*, and promising new seedlings of his own; Albert Wilson displayed a specimen of *Genista monosperma pendula* (bridal veil) in flower, and Mrs. Bernstein showed a new flower color in a Belgian hybrid *clivia*.

C. J. B.

SUPERIOR CHAPTER

The Superior chapter, California Association of Nurserymen, held a meeting March 20 at the Tuesday Clubhouse, Sacramento. With spring business under way, many members were late and complained—in a happy sort of way—of being worn out.

After a delicious smorgasbord meal, John G. Goodrich, assistant vice-president of the American Trust Co., Sacramento, discussed the present economic situation, pointing out the growing demands for financing

and the higher interest rates. He noted that the building industry, which has drawn heavily on resources, will suffer greatly from any lack of financing that develops.

President George Oki, Oki Nursery, Perkins, thanked affiliate member, Dwight Dewing, of the Capital Nursery, Sacramento, for representing the chapter on a recent television program.

Wray Hiltabrand, supervisor of the California bureau of nursery service, was a guest of the chapter at this meeting.

Jack A. Wick, Sec'y.

SAN DIEGO CHAPTER

Fisherman's Wharf cafe, Point Loma, was the meeting place February 28 for the San Diego chapter, California Association of Nurserymen. President Charles E. Dibb, F. W. James & Son, National City,

reporting on the monthly tours of inspection of member nurseries, said that the Walter Anderson Nursery, San Diego, had been host to 47 visitors during February. Acacia Park Nursery, San Diego, was named the nursery to be visited in March.

The program opened with a promotional movie shown by representatives of the Wilson & George Meyer & Co., illustrating uses of the firm's brand of compressed peat moss. Pressley Neville Jones, C. A. N. insurance representative, explained the extent to which employees are covered by state workmen's compensation and described a new group welfare insurance plan being studied by the C. A. N. He urged nurserymen to have each new employee submit a written application that will serve as a record and to keep in a safety deposit box adequate records of all items covered by fire insurance.

Winners of the evening's special prizes were President Dibb; Walter Anderson, and Mr. Stinson, of the Hayseed Nursery, La Mesa.

Ada L. Perry, Sec'y.

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State Polytechnic College, Pomona, according to an announcement by Carl Englund, dean of agriculture. The new program, to start with the fall, 1957, quarter, will provide a 4-year curriculum leading to the bachelor of science degree. It will include "learn-by-doing" courses in landscape drafting, construction, contracting, designing and surveying.

The Kellogg campus provides an 830-acre laboratory for design problems and for experience in constructing landscape installations. Howard Boltz, head of the new program, was a landscape architect in private practice before joining the college staff in 1947.

CALIFORNIA ARBORISTS

The California Association of Arborists viewed two films and heard reports on activities of interest to the group at the March 20 meeting at Redwood City.

Ian Campbell, San Mateo county deputy agricultural commissioner, reporting on the recent meeting of the air pollution board at San Francisco, advised that some relaxation of the open fire limitations regulations which go into effect October 1 could be expected. He said that the scavenger associations and the han-

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dlers of wrecked automobiles had put forth the best prepared arguments in favor of lessening the restrictions and it seemed that all who burned waste matter would benefit from the arguments. Mr. Campbell also reported that efforts are being made to secure some special appropriations for the University of California to carry on research in the sources of harmful air pollution.

There was discussion of a proposed lawsuit against a local tree

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5/16-in. cal., 90c each
7/16-in. cal., \$1.00 each.

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Ash, Green, 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.
Birch, Cut-leaved Weeping, 9 to 10 ft., 4 to 9 ft., 4 to 5 ft.
Birch, Clump, 7 to 8 ft., 6 to 7 ft., 2 to 3 ft.
Birch, European White, 10 to 12 ft., 6 to 8 ft., 5 to 6 ft.
Box Elder, Green, all sizes.
Elm, American, all sizes.
Elm, Chinese, 10 to 12 ft., 8 to 10 ft., 4 to 5 ft.
Hawthorn, Paul's Scarlet, branched, 5 to 6 ft., 4 to 5 ft., 3 to 4 ft.
Hawthorn, Paul's Scarlet, whips, 6 to 7 ft., 5 to 6 ft.
Locust, Black, 8 to 10 ft., 6 to 8 ft.
Locust, Globe, No. 1.
Maple, Faassens Black, whips, all sizes.
Maple, Silver, 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Silver Var., br., 6 to 8 ft., 4 to 5 ft.
Maple, Silver Var., whips, all sizes.
Maple, Schwedler, br., 10 to 12 ft., 8 to 10 ft., 6 to 8 ft., 5 to 6 ft.
Maple, Schwedler, whips, all sizes.
Mulberry, Fruitless, 8 to 10 ft., 6 to 8 ft., 5 to 6 ft.
Plane Tree, European, 8 to 10 ft., 4 to 5 ft.
Plum, Flowering, Pissard, 6 to 7 ft., 5 to 6 ft., 4 to 5 ft.
Redbud, 4 to 5 ft., 3 to 4 ft.
Sweet Gum, 5 to 6 ft., 4 to 5 ft., 3 to 4 ft.
Tulip Tree, 10 to 12 ft., 8 to 10 ft.
Willow, Babylonica, 8 to 10 ft., 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.
Willow, Golden, 8 to 10 ft., 6 to 8 ft., 5 to 6 ft., 4 to 5 ft., 3 to 4 ft.

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Distributors of:

Goodrich rubber bud strips, write for prices.
Permacell cloth grafting tape, 1/2-in. width
1 to 5 rolls, 80c each
5 to 95 rolls, 75c each
Full case of 96 rolls, 68c each

Treheal pruning and grafting paint
1 pt., 30c each; per case of 36, \$9.36
1 qt., 45c each; per case of 12, \$4.80
1 gal., \$1.00 each; per case of 6, \$5.58

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ROSES OLD and NEW

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Also offering 150,000 extra-heavy, uniform, 3-year roses, in both patented and nonpatented varieties (at slightly higher prices).

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CAMELLIAS—ROSES
RETICULATAS—HOLLY
(Northern California Grown Roses)

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surgeon who, it is alleged, lessened the value of some property through his method of tree pruning. It was suggested that the association draw up a set of general rules for tree surgery, and a committee to consider this will be appointed by President George Hood. W. B. B.

CALIFORNIA NOTES

Shaffer's Tropical Gardens, Capitola, is now handling orchid plants for the home gardener.

Burton Edwards, who has been instructor in practical horticulture at San Mateo College since about 1945, has resigned to take a position in charge of the tree and shrub spraying and fertilizing operations of the Davis Tree Service, Menlo Park.

John Edwards, Edwards Camellia Nursery, East Palo Alto, has leased a 3-acre tract adjoining the nursery on which to expand his growing activities.

John Marston, who had been superintendent of the household pest control activities of the Bay Pest Control Co., San Mateo, has bought the interests of Philip Parsons, the former owner, and now is sole operator-owner of the organization. Mr. Parsons is associated with the Yosemite Chemical Co., San Francisco, as a research chemist.

Mrs. Charles Burr, wife of Charles Burr, California Garden Supply Co., San Francisco, and active in the affairs of the California Association of Nurserymen, has been appointed treasurer of the Santa Clara branch of the American Cancer Society.

W. B. B.

UNIVERSITY CHARTER DAY

Visitors to the Berkeley campus of the University of California's 89th charter anniversary observance held March 21 were given an insight of the nursery industry from the standpoints of its place in the nation's economy and its contribution to good living.

San Mateo county nurserymen cooperated with U. C. farm adviser, R. H. Sciaroni, by placing on loan a colorful selection of plants and ornamentals for a university department of plant pathology exhibit in Gianini Hall, headquarters of the University of California's division of agricultural sciences. Actual demonstrations of disease symptoms in plants were shown along with the many examples of healthy, blooming specimens.

Theme of the exhibit was the university's role in teaching, research and extension in support of Califor-

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nia agriculture. At the same time the display showed how the university and the nursery industry work together to maintain steady commercial growth by constant study of the many problems of production and marketing.

San Mateo county 1956 grower receipts from specialty flower crops amounted to 7.4 million dollars. Total grower receipts for California nurserymen in 1955 are estimated at 100 million dollars.

Grower-cooperators who loaned some 150 plants for the university charter day display, part of a campus-wide open-house program, included: Avansino-Mortensen Co., San Bruno; Geneva & Sunnysdale Nurseries, Colma; Kitagawa Nursery, Redwood City; McCahon-Dahlen Nursery, South San Francisco, and Podesta Nursery, East Palo Alto.

OREGON NOTES

A special meeting of the board of directors of the Oregon Association of Nurserymen was held March 18 at the Portland Wholesale Nursery Co., Portland. Present were the group's president, Paul Van Allen, Portland Wholesale Nursery Co.; first vice-president, Joseph Klupenger, Klupenger Nursery, Portland; second vice-president, Robert Snodgrass, Esch Nursery, Portland, and the following trustees: J. Frank Schmidt, Jr., J. Frank Schmidt, Jr., Nursery, Troutdale; James Doty, Doty & Doerner, Portland, and Melvin Surface, Surface Nursery, Gresham. The main purpose of the meeting was to discuss with Charles Knap, of television station KLOR, the possibility of the O. A. N.'s sponsoring a 13-week television series headed by veteran journalist Dean Collins. At present the association is attempting to get retail members to take over the program. The Sunset Landscaping Co. became a member of the association at the meeting.

The Oregon Camellia Society held its annual show at the Meier & Frank Co. auditorium March 15 and 16, with many commercial growers participating.

The first meeting to form a chapter within the O. A. N. was scheduled at Portland March 29. April 29 has been set as the date to establish the Medford chapter, and the Eugene chapter organization meeting is set for April 30. C. H. P.

NORBERT JOB, Job's Pasco Nursery, Pasco, Wash., discussed basic rules of landscaping at a recent meeting of a local garden club.



Stribling's S-37 ROOTSTOCK Does It!

This Orchard FREE from Nematodes

Don't let your customers gamble with nematodes. Sell S-37 Rootstock and play safe! S-37 assures maximum protection for the orchardists you deal with by providing positive protection in all types of soil—sandy or heavy clay. Don't sell any peach, almond or nectarine variety until you check first with Stribling's about S-37.

T.M. Reg.

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Merced, California
--- One of California's Leading Nurseries

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Wholesale only

**FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES**

**Constant Vigilance Results
in Quality Stock**

Combination carloads to eastern
distributing points.

Write for our List.

Eastern Representative:

Frank C. Donovan
130 E. 23rd St.
Euclid 23, O.

ORDER FROM RICH!

Flowering Crab Apples, many varieties
Flowering Cherries
Flowering Plums
Norway Maples, branched, all grades
Red Maples, branched
Silver Maples, branched
Pin Oaks
Dogwoods
Fruit Trees

And Many Other Items

Write for our wholesale list.

**RICH & SONS NURSERY
HILLSBORO, ORE.**

OPENING this spring is the Inadomi Nursery, 8575 Castro Valley boulevard, Castro Valley, Calif. Mr. and Mrs. J. K. Inadomi will grow deciduous and evergreen shrubs at the 1-acre retail nursery.

DIRECTORS of the newly formed Naruo Nursery, Inc., Alameda county, California, are Robert Naruo, San Leandro; Roy Naruo, Hayward, and William Naruo, San Leandro.

PRUNING techniques for roses and ornamental plants and shrubs were demonstrated recently by R. Ralph Clark, Oregon State College, Corvallis, to groups in the Oregon towns of Eugene, Florence and Deadwood.

JAMES HUNT, a graduate in landscape architecture from the University of California, Berkeley, recently opened Jim Hunt's Landscape Center, San Bernardino, Calif.

PACIFIC COAST NURSERY

Rt. 1, Box 114B, PORTLAND 9, ORE.

**Pioneering Seedling Growers on
the Pacific Coast Since 1914**

**Specializing in Fruit Tree Seedlings
also Shade and Flowering Trees**

French Apple Seedlings,
Str. and Br.
Domestic Apple Seedlings,
Str. and Br.
Bartlett Pear Seedlings,
Str. and Br.
Ussuriensis Pear Seedlings

Mahaleb Cherry Seedlings
Mazzard Cherry Seedlings
Myrobalan Plum Seedlings
American Plum Seedlings
Angers Rooted Quince
Cuttings

Combination carloads to eastern distributing points.

John Holmason & Sons
Props.

DOERFLERS have five solid acres of True Dwarf Buxus and Buxus Sempervirens, perfectly sheared to globe, pyramid and column, up to 7 ft.

DOERFLERS specialize in large shade, flowering and ornamental trees—also rare and dwarf stock, all completely root-pruned and moved regularly, therefore can be planted the year around.

One of the leaders in canned stock as well as field-grown.

F. A. DOERFLER & SONS
250 N. Lancaster Dr.
SALEM, ORE.

DOTY & DOERNER, Inc.

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PORTLAND 19, OREGON

WHOLESALE
GENERAL NURSERY STOCK

MITSCH NURSERY

Wholesale Propagators of
Evergreen Liners
Write for latest price list.
AURORA, ORE.

CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties,
Quality only

VAN VEEN NURSERY
3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

LUMITE SARAN shading material at
factory prices.

POLYETHYLENE in popular widths and
lengths, clear or black.

HIGO IRIS } Write for names
TREE PEONIES } and prices.

LAKE SAMMAMISH EVERGREEN NURSERY

6127 Highway 99, S. — Everett, Wash.

We propagate hardy rhododendrons
in the newest varieties and many other
evergreen liners.

Price list upon request.

WEST OREGON NURSERY
3550 N. W. Saltzman Rd.
PORTLAND 1, ORE.

ROSES

Top-quality, field-grown patented and
standard roses.

Write for list and prices.

MAYWOOD ROSE NURSERY
Rt. 2, Box 880 ROSEBURG, ORE.

RHODODENDRON AND EVERGREEN LINERS

In Season

J. B. WHALLEY

Rt. 2, Box 683 TROUTDALE, ORE.

Source

Recommendations Build Good Will

By William E. Schmidt

The Bible gives us this statement (Matthew 7:12): "Therefore all things whatsoever ye would that men should do unto you, do ye even so to them: for this is the law and the prophets."

That, of course, is a basic law of life and so applies to business, too, although often overlooked. The proposition here is that if your nursery suggests to a customer another nursery as the source for an item you do not have, you in turn will get back that business manyfold. Over the years it has meant thousands of dollars of new and additional business for us.

For a moment, put yourself in a customer's place. Suppose you need a left-handed Glockenspiel and think a certain hardware store has it. When you ask for it there, the clerk says: "Na, we ain't got it." This goes on at three or four places, and you are wasting a lot of time. Of course you could have asked the first clerk where you might get it, but how much better it is when the clerk volunteers: "Sorry, we happen to be out of this right now (or, we don't stock it) but you can get it at the such-and-such place."

Good Will Builder

Since the Schmidt Nursery is rather specialized and does not sell many of the items normally handled by a general nursery, we often get inquiries for plants and supplies we do not carry. This has given us ample opportunity to suggest or recommend other nurseries or businesses as sources for the items we do not sell. But even a general nursery does not carry everything or items in all sizes or may not offer certain services and so has many chances to turn this idea into good will and new business.

However, even this simple idea can cause complications unless you are prepared for it. Do not send your customer to just any old place, to get rid of the question. Do not suggest another business unless you are

Talk given by William E. Schmidt, Schmidt Nursery, Palo Alto, Calif., on "Source Recommendations," at the California nurserymen's refresher course held last year at California State Polytechnic College, San Luis Obispo.

fairly sure it has the item, otherwise you may aggravate the situation. Do not recommend only other nurseries that are smaller or, in your own opinion, inferior to yours, with the idea in mind that your customer will surely come back to you after seeing such a place. Remember, you are often a customer yourself and consider yourself fairly intelligent. Your customer is in the same position and would soon see through any sly scheme you may try to pull.

If you know that a certain nursery has an item your customer wants but you do not send him there for fear of losing him as a customer because you think the other nursery is better than yours, then that would be a good time to start improving your own business so that you may send your customers to any source of supply.

Whenever you suggest a source, ask the customer to mention your nursery's name when asking for the item. Just because you know where the nursery is, do not take it for granted that the customer knows. Give the full name, street and street number. Or, better, write down the name and address on your business card or on a sales slip that has your name on it and hand it to your customer. A good way is to give more than one possible source and have the names and addresses of other nurseries handy for your sales personnel to copy.

This good-will service does not cost much, so hand it out freely at every opportunity. Your name will soon get around and more and more often you will hear the pleasant words: "Your nursery was recommended to me by..."

RANVILLE HART, Hart's Nursery, Mount Vernon, Wash., announces that he recently completed a 100x135-foot house for growing azaleas.

JOHN A. CURTIN announces the recent sale of his nursery at Antelope, Calif., to Mr. and Mrs. Arthur E. Butler, of Red Bluff, Calif.

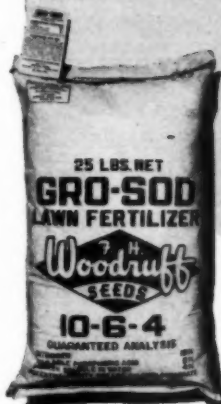
ERIC CLOUGH, landscape architect of Burlingame, Calif., has been appointed designer of the San Mateo county fair and floral fiesta to be held August 2 to 10.

SPEAKERS at the March 6 meeting of the newly formed Northern California chapter of the California Institute of Landscape Architects at San Francisco were Frank Foehr, superintendent of grounds, San Francisco recreation and park department, and Hubert Schmidt, the department's landscape architect.



Turf-Maker and Milford Green custom blended lawn seed mixtures . . . blended to suit the soil and climate where they're sold . . . in bright foil boxes for seed protection and sales impelling display. Used to grow some of the finest lawns in the country.

Let this
F. H. Woodruff trio
build **"FULL PROFIT"**
sales
for you



Gro-Sod lawn food . . . 10-6-4 formulation specifically designed for lawns only. 50% of the nitrogen is organic to feed over a longer period.



Weed-Nix . . . new addition to the Woodruff line . . . highly effective combination of fertilizing elements (6-10-4) with 2, 4-D for easy control of broad-leaved lawn weeds. Tell your customers it saves work, time and money as it gives their lawns that luxury look. *T.M.



Ask your Woodruff salesman or write us direct for complete information on how F. H. Woodruff helps its selected dealers get "full profit" sales.

F. H. WOODRUFF & SONS, INC.

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Sacramento, Calif. • Mercedes, Tex. • Salisbury, Md.

PLANT PROPAGATION PRACTICES, by James S. Wells. Detailed procedures for propagating selected plants. **\$7.50.** American Nurseryman, Chicago 4, Ill.

DARLING'S
"Rite in the Rain"
WATERPROOF
TREE AND PLANT LABELS

"Rite in the Rain" labels are not just another paper label. They are made of tough tagboard and chemically treated to make them waterproof. Ordinary pencil markings do not wash off. These are longer lasting yet low-cost labels. Millions are used every year by nurserymen.

Write for samples and prices.
J. L. DARLING COMPANY
BROWN'S POINT, TACOMA, WASH.

"NEW ERA" SHREDDER
"YAK!"
"YAK!"
"YAK!"

Let's not "Yak" about it here—but if you want details, pictures, facts and names of users who you can check with—write to us.

TORMEY'S
Phone: AT 7-5101
P. O. Box 4287
TEMPLE CITY, CALIFORNIA

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 1 issue must be received by Friday, April 12.

Forms for May 15 issue will close Friday, April 26.

AZALEAS

AZALEA LINERS
Peat-grown in coldframes for April and May delivery. Minimum 25 per variety.

GLENN DALE HYBRIDS
\$14.00 per 100, \$120.00 per 1000.

CONTENT ILLUSION
COQUETTE PRUDENCE
COPPERMAN TREASURE
CORSAIR SUBANEE
CORDON SEWANESE
FESTIVE SEBASTIAN
GLACIER TROUPER

NEW KURUMES
\$14.00 per 100, \$120.00 per 1000.

FUJI-NO-ASAH KINTAIKO
HIME-KAGAMI KUMOI
KAMAKURA TWILIGHT

MACRANTHUS
\$12.00 per 100, \$100.00 per 1000.

BENIKERIN RED MACRANTHA
GUMPO OKINAWISHIKI
MACRANTHA WAKAEBISU
MACRANTHA, dble. WAKAMATSU

KURUMES
\$12.00 per 100, \$100.00 per 1000.
BRIDESMAID MAUVE BEAUTY
CHRISTMAS CHEER DOUBLE MAUVE
CORAL BELLS PINK PEARL
HEXE SALMON BEAUTY
HINODEGIRI SNOW
FLAME

INDICAS
\$12.00 per 100, \$100.00 per 1000.
DAPHNE SALMON JUDGE SOLOMON
FORMOSA MRS. G. G. GERBING
GEORGE TABER PERFECTION
GULF PRIDE PRES. CLAY
INDICA ALBA PRIDE OF MOBILE
OVERLOOK NURSERIES, INC.
R. 3, Box 428 Mobile, Ala.

AZALEA LINERS
A SELECTED LIST OF NEW VARIETIES.
PROVEN SUPERIOR AFTER CAREFUL SELECTION.

Available in limited quantities for spring shipment. May 1. Japanese beetle certified.
GABLE VARIETIES: Cameo, Carol, Elizabeth Gable, Herbert, Lorna, Louise Gable, Mary Ann, Mary F. Hawkins, Purple Splendor, Rosebud, Rose Greely.

KURUME AND USDA VARIETIES: Addy Wery, Eureka, Good Times, H. H. Hume, Double Hino, Hino-Crimson, Majestic Pink, Mrs. L. C. Fischer, Rose Banner.

GLENN DALE HYBRIDS: 40 varieties, selected for hardiness and outstanding merit, including Copperman, Crinoline, Dayspring, Fairy Bells, Glamour, Red Bird, Treasure, Wavelet and many others.

ALL VARIETIES, \$25.00 per 100.
JAMES S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

STURDY STOCK.
WELL-ROOTED TRANSPLANTS
Azalea hinodegiri.
\$15.00 per 100, \$125.00 per 1000,
\$1,100.00 per 10,000.

Finished field-grown Azaleas for landscape use.

Kaempferi and other varieties, such as Betty, Mauve, Flame, Purple King, Mary, H. M. Care, arnoldiana, indica alba, Hino-mayo, amoena.

	Each	10	100
12 to 15 ins., B&B	\$2.00	\$1.75	
15 to 18 ins., B&B	2.75	2.25	
18 to 24 ins., B&B	3.50	2.75	
24 to 30 ins., B&B	4.50	3.75	

Packed and shipping extra.
DEKALB NURSERIES, INC.
P. O. Box 67 Norristown, Pa.
Phone Broadway 5-1597

AZALEAS

Thousands of fine quality, field-grown Azaleas, ready for spring delivery. Dense, bushy, heavily budded plants of all sizes up to 3 ft. 200 varieties of kurume, Glenn Dale, Gable, Kaempfer and many others. Extra nice plants priced right. Write for our trade list or visit our nursery.

ELDRIDGE'S NURSERY
717 Hillen Road Towson 4, Md.
Phone Valley 5-3824

AZALEAS

Hardy kurumes: Hinodegiri, Coral Bells, Snow, May Glory and Hexe. Bed-grown, irrigated, compact, Jap. beetle treated. Write for prices and information.

C. F. DALEY & SON, TASLEY, VA.
(Just off U. S. 13.)

BUSHY AZALEAS FOR GROWING ON

2 1/2-in. size, spring shipment.
Kurumes: Hinodegiri, Salmon Beauty, Snow, Mrs. Fischer, Hexe, \$135.00 per 1000.
Rose Pericat, Hexe de Saffelare, \$145.00 per 1000.

Indicas: Paul Schaeme, Triomphe, Vervaeana, Vervaeana Alba, \$160.00 per 1000.

Ask for trade list.

JULIUS ROEHRS CO., Rutherford, N. J.

AZALEA LINERS

DELIVERY SPRING, 1957.

Hinodegiri, in flats,

Coral Bells, in flats,

Delaware Valley White, in flats,

60 plants to the flat,

\$14.00 per 100, \$125.00 per 1000.

DELAWARE VALLEY NURSERY

948 N. Broad St. Elizabeth 3, N. J.

AZALEAS

Choice plants, bed-grown, irrigated, compact and well shaped. The growing of fine Azaleas is our business, not a sideline. Send for our list today.

BROADLEAF GARDENS

Route 13 Phone Onancock 528 Onley, Va.

AZALEAS

Deciduous varieties, grown from seeds in irrigated field beds; reliably hardy for landscape planting in sub-zero areas. Send for list.

BROOKFIELD GARDENS

Delaware, N. J.

ONLY 10,000 HINO-CRIMSON LINERS LEFT
4 to 6 ins., 25c each per 1000, 25c each per 5000. F.O.E. Will make 6 to 8 and 8 to 10-in. plants next season.

BROADLEAF GARDENS

Route 13 Onley, Va.

AZALEAS, LINERS

Large assortment of kurume, Glenn Dale and other evergreen Azalea and Broadleaf Evergreen liners for spring.

THE TANKARD NURSERIES, Exmore, Va.

AZALEAS, VIRGINIA FIELD-GROWN

Hinodegiri, 6 to 8, 8 to 10, 10 to 12 ins.

DAVIS PINE POINT NURSERY

Wachapreague, Va.

BARBERRIES

RED-LEAVED BARBERRY

(Atropurpurea) 2-yr. seedlings.

	Per 100	Per 1000
Lining-out	\$ 4.50	\$ 40.00
6 to 9 ins., branched	6.00	50.00
9 to 12 ins., branched	9.00	80.00
12 to 18 ins., branched	12.00	110.00
18 to 24 ins., branched	15.00	140.00

RED-LEAVED BARBERRY

(Atropurpurea) 4-yr. transplants

	Per 100	Per 1000
Heavy stock		
9 to 12 ins.	\$24.00	\$200.00
12 to 18 ins.	25.00	240.00
18 to 24 ins.	32.00	280.00

GREEN BARBERRY

(Thunbergii) 4-yr. transplants.

	Per 100	Per 1000
9 to 12 ins.	\$20.00	\$160.00

DANEGGER'S HI-WAY NURSERY

Box 336 Milford, Del.

YOU CAN SELL YOUR STOCK

QUICKLY AND WITH LESS EXPENSE

BY ADVERTISING IN

THE CLASSIFIED COLUMNS OF

THE AMERICAN NURSERYMAN

BEDDING PLANTS

SALVIA

Grown and shipped in 1 1/2-in. bands.
No extra handling; can be sold in the bands.
Blaze of Fire \$6.00 per 100
Fire Ball 7.00 per 100

BAND-GROWN VERBENAS

Red Beauty of Oxford, from selected stock.
Clean, well-branched plants with dark green foliage. Immediate shipment.

\$6.00 per 100.

Grown and shipped in 1 1/2-in. bands.

VINCA VARIEGATA

Well-variegated, 2 to 6 vines per pot;

2-in., 10c.

FETUNIA PLANTS FROM SEED

Grown and shipped in 1 1/2-in. bands.

Per 100

All-Double Colossal Shades of Rose.....\$10.00

All-Double Canadian Mixture..... 10.00

All-Double Sonata (white)..... 10.00

All-Double Necturus (purple)..... 10.00

All-Double Galet (variegated pink and white)..... 10.00

All-Double Mixture of all the above..... 10.00

F1 Hybrid Ballerina (ruffled pink)..... 8.00

F1 Hybrid Comanche (scarlet-crimson)..... 8.00

F1 Hybrid Crusader (pink and white striped)..... 8.00

F1 Hybrid Tango (salmon-scarlet)..... 8.00

F1 Hybrid Prima Donna (bright rose ruffled)..... 8.00

F1 Hybrid Apache (deep coriase-rose)..... 8.00

F1 Hybrid Gladiators (crimson-white)..... 8.00

F1 Hybrid Red Satin (bright red)..... 8.00

F1 Hybrid Fire Gleam (cherry-red)..... 8.00

F1 Hybrid Linda (rosy salmon)..... 8.00

F1 Hybrid Paleface (white with cream eye)..... 8.00

F1 Hybrid Fire Dance (red, yellow throat)..... 8.00

F1 Hybrid Serenade (rich violet-blue)..... 8.00

California Dwarf Giants (mixed)..... 8.00

Single Celestial Rose (improved deep rose)..... 6.00

Single Admiral (dark velvety blue)..... 6.00

All the above are short, strong, well-branched plants, packed 100 plants per carton. Not less than 25 plants of a variety.

HARMONY GARDENS

Route 2 Wamego, Kan.

Wholesale growers of quality bedding plants.

BERRY PLANTS

BERRY PLANTS

	No. 1	No. 1
	transp.	suckers

per 1000 per 1000

RED RASPBERRIES

Chief, Sunrise \$ 67.50 \$57.50

Latham, Newburgh, Taylor..... 72.50 62.50

Indian Summer, Willamette, Durham..... 77.50 67.50

September..... 95.00 85.00

BLACK RASPBERRIES

Cumberland, Bristol..... 97.50

PURPLE RASPBERRY

Sodus..... 115.00 52.50

DEWBERRY

Lucetta..... 57.50 42.50

GOOSEBERRIES

Downing, 2-yr., No. 1.....30c each

Red Jacket, 2-yr., medium30c each

Consist of other offerings upon request.

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

BLACK RASPBERRY TRANSPLANTS

(Cumberland, Logan, Bristol.)

RED RASPBERRIES IN VARIETIES.

SORTED SOFT CUT ON

NEW BURGUNDY RASPBERRY

(Plant patent No. 1567).

Fall, 1957, spring, 1958 orders accepted only.

GRAPEVINES

CONCORD, 2-yr., No. 1 and No. 2.

CONCORD, 1-yr., No. 1.

Write for price list.

LORETTO BROS. FRUIT & NURSERY FARMS

Box 47 North Collins, N. Y.

EVERBEARING STRAWBERRY PLANTS

SURPLUS!

Superfection, \$13.00; Gem, \$10.00 per 1000,

in lots of 10,000 or more.

Dorset, one crop, \$10.00; Streamliner,

\$15.00; 20th Century, \$30.00 per 1000.

Latham Raspberry plants, \$45.00. Send for prices in large amounts.

Plants guaranteed true to name, all large, healthy, first-year plants.

DAVIS PLANT FARM, HAMILTON, MONT.

STRAWBERRY PLANTS

Illinois-grown.

Blakemore	\$ 7.50 per 1000
Senator Dunlap	7.50 per 1000
Tennessee Beauty	7.50 per 1000
Armour	8.50 per 1000
Robinson	8.50 per 1000
British Sovereign	11.00 per 1000
Gem (Everbearing)	12.50 per 1000
Superfection (Everbearing)	12.50 per 1000

ANNA, ILL.

Strawberry plants, double inspected, northern-grown: Dunlap, Blakemore, Giant Robinson, Premier, Armour, 1000, \$4.00; 5000 up, \$7.50 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$16.00; 5000 up, \$15.00 per 1000. These are young, healthy, moss-packed plants grown from virus-free stock, guaranteed to reach you in good growing condition.

Iowa Nursery, Farmington, Ia.

STRAWBERRY AND RASPBERRY PLANTS
Large, well-rooted plants, grown under irrigation; true to name, free of disease and insects. Superfection, Gem, Dorsett, \$12.00 per 1000; Streamliner and Radiance, \$16.00. No. 1 Raspberry plants, Latham and Newburg, \$50.00 per 1000.

McNEAL BERRY NURSERY
Hamilton, Mont.

STRAWBERRY PLANTS, WELL-ROOTED
Double inspected, irrigated. Per 1000
Dunlap \$ 7.50 || Blakemore | 8.00 |
Robinson	9.00
Armour	10.00
Premier	11.00
Everbearing, Superfection and Gem	16.00

DOLLAR NURSERY, BLOOMFIELD, IA.

RASPBERRY PLANTS

Latham, red	\$8.00	\$65.00
Sodus, purple	8.00	65.00
Bristol, black	8.50	69.00
Durham, red; everbearing	8.50	75.00

SECOR'S NURSERY

U. S. 20 Perry, O.

RASPBERRY PLANTS

The new Durham Everbearing red Raspberry, also Gatinneau (very early) and September Everbearing.

Strawberry plants, 40 varieties.

Write for wholesale price list.

WALTER C. MORSE & SON

Bradford, Mass.

Certified No. 1 grade Raspberry plants, in bundles of 25, for resale: 50,000 Newburg, 20,000 Viking, 1000 to 4000, \$50.00 per 1000; 5000 to 9000, \$47.00 per 1000; 10,000 or over, \$45.00 per 1000. Packing free.
W. H. Perron & Co. Ltd., 515 Blvd. Labelle, L'Abord a Plouffe, P. Q., Canada.

STRAWBERRY PLANTS

Vigorous, northern-grown, double inspected, Senator Dunlap \$8.00 per 1000 || Gem, everbearing | 14.00 per 1000 |
| Superfection, everbearing | 16.00 per 1000 |

PELLETT GARDENS, ATLANTIC, IA.

RASPBERRIES

Latham, red
Indian Summer, red; everbearing
Write for special quotations.
CHAMPION NURSERIES
Perry, O.

CUMBERLAND RASPBERRIES

\$5.00 per 100, \$45.00 per 1000.
WAYNESBORO NURSERIES
Waynesboro, Va.

Surplus Stock

can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads

BULBS AND TUBERS

GLADIOLI GROWN ON OUR FARM

Very nice, healthy bulbs, selected for counter sale, in the following 10 varieties.
Alfred Nobel, deep rose, white blotch
Benjamin Britten, deep lavender, purple
Han Van Meersee, dark yellow
Harry Hopkins, dark red
Jo Wagenaar, carmine-red, velvet shaded
Memorial Day, light purple with white stripe
Morning Kiss, tall white
Ravel, violet-blue with red blotch
Salman's Glory, creamy white with red blotch
Silhouette, smoky.

Total 1000 bulbs, 100 each of 10 varieties, separately packed. Large pictures of each variety, size 7 to 14-in., supplied free. Order now for spring shipment and we will hold the order for you.

PER COLLECTION

Jumbo size, 2-in. up \$35.00 || Extra No. 1 size, 1 1/2 to 2-in. | 32.50 |
| No. 1 size, 1 1/2 to 1 3/4-in. | 30.00 |
| No. 2 size, 1 1/4 to 1 1/2-in. | 25.00 |

Ask for our complete price list.

NEW ENGLAND BULB CO.

Box 743 New London, Conn.

Phone GI. 2-8809

QUALITY GLADIOLI BY THE MILLIONS

For jobbers and wholesalers.

Priced per 1000.

Variety	No. 1	2	3	4	5	6	Bulblets
Aristocrat	\$17	9	9	6	4	30	\$35
Bridal Orchid	17	9	9	6	4	30	35
Burma	17	9	9	6	4	30	35
Chamouny	17	9	9	6	4	30	35
C. D. Fortnam	17	9	9	6	4	30	35
Circe	\$23	17	9	6	4	30	50
Dieppe	17	9	9	6	4	30	35
D. Varden	17	9	9	6	4	30	35
E. the Queen	22	17	9	6	4	30	35
Elmer's Rose	32	18	10	7	5	35	35
F. Nightingale	17	9	9	6	4	30	25
Francesca	25	\$20	15	12	9	\$35	35
Friendship	22	17	9	6	4	30	35
Gold	25	20	15	12	9	35	35
H. Hopkins	17	9	9	6	4	30	35
H. the Desire	18	9	9	6	4	30	35
June Bella	18	9	9	6	4	30	35
King David	18	10	6	4	30	50	35
Leaf Ericson	20	12	9	6	4	30	35
M. Fischer	24	20	16	12	9	35	35
Oct. Sunshine	18	9	9	6	4	30	35
Patrol	18	10	6	4	30	35	35
Prof.	18	10	6	4	30	35	35
Goudriaan	30	25	20	18	10	35	35
Pur. Burma	50	40	25	18	10	30	100
Poinsettia	20	12	9	6	4	30	35
Red Charm	17	9	9	6	4	30	35
Sans Souci	18	10	6	4	30	35	35
Sierra Snow	24	20	16	12	9	35	35
Spic & Span	22	17	9	6	4	30	35
Spotlight	18	10	6	4	30	35	35
Sw. Sixteen	18	10	6	4	30	35	35
Salman's	25	20	16	12	9	35	35
Sensation	25	20	16	12	9	35	35
The Rajah	18	10	6	4	30	35	35
Tyrene	32	25	20	18	10	45	150
Valeria	18	10	6	4	30	35	35
Wedgwood	18	10	6	4	30	35	35
Wh. Goddess	13	9	6	4	30	35	35
Jumbo bulbs of Eliz. the Queen							\$25.00;
Valeria							\$26.00 per 1000.

Priced per 100.

Variety	No. 1	2	3	4
Campanile	\$14.00	\$11.00	\$8.00	\$5.00
Harrisburger	4.00	3.50	3.00	2.50
Pink Chiffon	3.00	2.50	2.00	1.50
Prospector	5.50	4.50	3.50	2.50
Recompense	\$5.00	4.00	3.00	2.50
Snowclad	5.00	4.00	3.00	2.50
Traveler	5.00	4.00	3.00	2.50

Prices quoted are F.O.B. Ontario, Ore.

All stock offered subject to prior sale.

Terms: Net cash with order, or 25 per cent deposit, balance C.O.D.

Phone Midway 9-3761, Payette, Idaho.

MARK M. SUMIDA BULB FARMS

Route 2 Ontario, Ore.

OREGON GLADIOLI

Spring bargain specials.

Take advantage today of our low clearance prices. On orders from \$500.00 to \$1000.00 we pay 1/2 the express; orders over \$1000.00 come to you prepaid.

Variety	No. 1	2	3	4	5	6	qt.
Early Fortune	\$20	\$15	\$10	\$8	\$6	\$4	\$40
Mother Anne	10	8	7	6	5	\$4	20
Snow Cloud	8	7	5	3	2	50	50
Violet Charm	6	5	4	3	2	50	50

Per 1000
Elmer's Rose 5 | 3 | 45 || Fire Opal | 16 | 11 | 6 | 120 |
Golden Dawn	20	16	10	5	30		
King David	13	8	6	3	30		
Poinsettia	16	12	8	30	30		
Bulblets, per bu.: Andrena, \$30.00; Mallow (heat treated), \$90.00; Lavender Joy, \$160.00; Patrol, \$40.00; Pink Chiffon, \$80.00; Truly Fair, \$125.00; Tyrene, \$100.00; Pink Lustre, \$50.00 per pk.							

SPECIAL CLEANUP LOT PRICES

Variety	No.	Per 1000	Per lot
2,000 No. 4 Andrena	8	\$ 8	\$ 15
20,000 No. 4 Friendship	5	140	58
14,000 No. 5 Friendship	3	80	30
20,000 No. 6 Friendship	3	80	30
3 pks. bbls., Gold, per pk.	25	60	60
5,000 No. 3 Gold Bank	15	60	60
15,000 No. 5 Harrisburger	8	100	100
30,000 No. 6 Harrisburger	5	120	120
2 bu. bbls., Harrisburger	125	200	200
2 bu. bbls., Lavender Joy	13	240	240
20,000 No. 3 Mother Fischer	17	90	90
6,000 No. 2 Mother Fischer	7	90	90
15,000 No. 5 Patrol	4	60	60
20,000 No. 6 Patrol	12	50	50
5,000 No. 5 Pink Lustre	8	30	30
2 bu. bbls., Pink Lustre, per bu.	175	300	300
2 bu. bbls., Rosita, per bu.	150	250	250
5,000 No. 5 Royal Scot	8	35	35
5,000 No. 6 Royal Scot	5	20	20
10,000 No. 4 Seneca	11	90	90
10,000 No. 5 Snowdrift	12	100	100
10,000 No. 6 Snowdrift	3	75	75
10,000 No. 5 Truly Fair	10	80	80
20,000 No. 6 Truly Fair	7	120	120
10,000 No. 5 Tyrene	9	80	80
20,000 No. 6 Tyrene	5	90	90
2 bu. bbls., Tyrene, per bu.	100	175	175
10,000 No. 5 Wild Rose	13	110	110
10,000 No. 6 Wild Rose	8	70	70
2 pks. bbls., Wild Rose, per pk.	50	85	85

Priced for cash. 1/2 lots at lot prices. Subject to prior sale.

HENRY W. TURK, GROWER

P. O. Box 694 Grants Pass, Ore.

A NEW BULB LIST EVERY MONTH!
WHOLESALE ONLY!
COMMERCIAL VARIETIES OF FLOWER
BULBS ALL THROUGH THE YEAR!
OUR LIST IS READY FOR THE ASKING.
MAILINGS EVERY DAY!

GLADIOLUS
AND OTHER BULB LISTINGS,
ALSO SOME HARDY PERENNIALS,
READY NOW.
HARTFORD FARMS, HARTFORD, MICH.

DAHLIAS
Over 30 best commercial varieties.
Send for our price list.
LOUIS DANK
1170 Broadway New York 1, N. Y.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

BUXUS

BUXUS SUFRUTICOSA
Old English dwarf Boxwood.
Very nice, bushy, heavily rooted plants,
\$8.00 per 100, \$80.00 per 1000.
Cash with order. Crating free. Sample
package consisting of 10 plants, \$1.00, postpaid.

BOXWOOD NURSERY
Wise, N. C.

CAMELIAS

CAMELLIA SASANQUA
IN GALLON CONTAINERS
Excellent for retail sales.
BROADLEAF GARDENS
Route 13 Onley, Va.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb

CHRYSANTHEMUMS

SELECTED HARDY CHRYSANTHEMUMS

Field divisions.

Our divisions are selected from the most
vigorous plants grown in the fields. These
divisions are well-rooted and have been hand-
trimmed, ready to plant in the fields. Our
fields have all been treated with Chlordane
for plant protection. In shipment the roots
of the plants are protected with sphagnum
moss and the tops with excelsior. Each variety
is carefully labeled.

100	500	1000
\$ 2.00	\$ 2.00	\$ 2.00
\$ 5.00	\$ 5.00	\$ 5.00
\$ 10.00	\$ 10.00	\$ 10.00

CUT AND DECORATIVE

Misty Maid, white
Cecil Beed, pink
Early Crimson, crimson
Delight, yellow
Red Cloud, red
Pathfinder, carnation-flowered yellow
Malinda Brown, excellent lavender-pink
General Marshall, variegated red
Remembrance, very dark red

LOW CUSHION

Allegro, salmon-pink
Purple Cushion, purple
Orange Cushion, brilliant orange
Little Eskimo, white Pompon
Santa Claus, red
Orchid Helen, lavender
Black Velvet, dark red
Golden Russet, yellow
Grace, white
Salute, reddish purple
Lomona, clustered yellow Pompon

Minimum order 25 of a variety. Begin shipping
May 1. For additional varieties, send
for price list.

W. S. YOE NURSERIES

Lake St. Madison, O.

HARDY CHRYSANTHEMUM DIVISIONS

CUSHIONS AND LOW TYPES

Bronze Cushion Cameron, yellow
Champ, Cushion, red Coral Sea, pink
Pink Cushion Dean Kay, pink
Red Cushion Peggy, pink
White Cushion Serene, white
Yellow Cushion Sup. Sept. Cloud, white
Autumn Lights, br. Winnetka, white
UPRIGHT AND TALL TYPES
Betty, pink Leda, orchid
Burgundy, red Minong, white
Charles Nye, yellow Orchid Spoon
Chippewa, purple Pohatcong, pink
C. Columbus, white Polar ice, white
Eureka, giant buff Red Velvet, red
Ember, red Reveler, red
Glacier, white Sept. Dawn, pink
Ind. Summer, bronze Sept. Bronze
Ind. Sunset, bronze Zantha, yellow
J. Anderson, yellow

\$4.00 per 100, \$35.00 per 1000.
25 at 100 rate; 250 at 1000 rate. Less than
25 of a kind, 2c extra. Minimum order, \$4.00.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.

GARDEN CHRYSANTHEMUMS

Strong field divisions. Send for list of
nearly 200 varieties.
ENGLERTH GARDENS
4652 S. Division Ave., Grand Rapids 8, Mich.

CHRYSAANTHEMUMS—Continued

FLORETUM COLORFUL GARDEN MUMS	
Top grade and new varieties. Bred for early blooming, frost tolerance, winter hardiness.	
ROOTED CUTTINGS, pinched, branched, outside hardened (no potting necessary). Ideal for planting out any time until late June. All bloom abundantly at regular time. Each variety labeled.	
5 each, 20 varieties, 100 plants.....	\$ 10.00
5 each, 50 varieties, 250 plants.....	25.00
5 each, 100 varieties, 500 plants.....	50.00
5 each, 150 varieties, 750 plants.....	75.00
5 each, 200 varieties, 1000 plants.....	100.00
10 each, 20 varieties, 200 plants.....	14.00
10 each, 50 varieties, 500 plants.....	35.00
10 each, 100 varieties, 1000 plants.....	70.00
10 each, 150 varieties, 1500 plants.....	100.00
25 each, 20 varieties, 500 plants.....	30.00
25 each, 50 varieties, 1250 plants.....	75.00
25 each, 100 varieties, 2500 plants.....	125.00
PRAIRIE SOUTHWEST FLORETUM	
Fall River, Kan.	

CLEMATIS

CLEMATIS MONTANA RUBENS (pink Anemone Clematis).	
A strong, vigorous hardy variety thriving under most adverse conditions. Blooms profusely around Memorial day.	
3 to 4 ft., staked, field-grown, br.	\$100.00 per 100.
C. HOGENDOORN	
Turner Rd.	Newport, R. I.

DELPHINIUMS

DELPHINIUMS	
Strong, well-rooted Pacific Hybrids, assorted colors; field-grown plants, not small seedlings, \$4.50 per 25, \$12.50 per 100, \$110.00 per 1000.	

THE KRIDER NURSERIES, INC.
Middlebury, Ind.

DOGWOODS

WHITE-FLOWERING DOGWOOD	
Nursery-grown transplants. Each Heavy caliper, well-branched.	
3 to 4 ft., bare-root.....	\$1.50
3 to 4 ft., B&B.....	1.95
4 to 5 ft., bare-root.....	2.00
4 to 5 ft., B&B.....	2.25
5 to 6 ft., B&B.....	3.25
6 to 7 ft., B&B.....	4.50
7 to 8 ft., B&B.....	6.00
8 to 9 ft., B&B.....	8.00
We really have the buds this year.	
Supply limited. Phone 395.	
WHERRY'S NURSERIES, St. Marys, W. Va.	

EVERGREENS, Liners

POTTED AND FIELD LINERS	
	Per 100 Per 1000
Taxus media Adams	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	\$18.00
2-yr., 2 1/4-in. pots, 8 to 12 ins.	24.00
3-yr., 8 to 12 ins., TT.....	35.00
Taxus media brownii	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
3-yr., 8 to 12 ins., TT.....	35.00
Taxus capitata, adig.-grown	
3-yr., 2 1/4-in. pots, 3 to 6 ins.	22.50
3-yr., 2 1/4-in. pots, 4 to 8 ins.	27.50
Taxus cuspidata	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Taxus cuspidata, semi-up	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
2-yr., 2 1/4-in. pots, 6 to 12 ins.	23.00
Taxus media hickel	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Taxus intermedia	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Taxus media kelsey	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Taxus media moon	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Taxus media wardi	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	22.50
2-yr., 2 1/4-in. pots, 4 to 8 ins.	27.50
Juniper, Andorra compacta	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Juniperus chinensis, adig.-grown	
3-yr., 3 1/4-in. pots, 6 to 12 ins.	22.00
Juniperus communis depressa aurea	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Juniperus glauca hetzi	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Juniper, Irish fastigiata	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Juniperus chin. pfitzeriana	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	22.50
2-yr., TT, 6 to 12 ins.	30.00
3-yr., TT, 8 to 15 ins.	40.00
Thuja occidentalis elegantissima	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	20.00
Thuja occidentalis pyramidalis	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Thuja occidentalis woodwardi	
1-yr., 2 1/4-in. pots, 4 to 6 ins.	18.00
Complete catalog on request.	
HEASLEY'S NURSERIES	
247 Freeport Rd.	Butler, Pa.

EVERGREENS
See our classified ad in this issue under
LINING-OUT STOCK.
T. G. OWEN & SONS, INC.
Columbus, Miss.

EVERGREEN LINERS AND CUTTINGS	
FIELD-GROWN TRANSPLANTS	
HEAVY, TRACTOR-CULTIVATED STOCK	
Each, 100 1000	
Am., nigra, 10 to 15 ins.....	45c 42c
POT-GROWN STOCK (FROM 2 1/2-IN. POTS)	
Sprayed with Parathion annually. Potted in special clay peat fertilizer mixture. Grown in open lath house or outside frames. No light, soft greenhouse-grown stock.	
Each, 100 1000	
Arborvitae, Am., 1-yr., 6 to 7 ins.....	27c 25c
Globe woodwardi, 1-yr., 5 to 6 ins.....	27c 25c
Pyramidal, 1-yr., 5 to 6 ins.....	27c 25c
Juniperus pfitzeriana armstrongi.	
1-yr., 4 to 5 ins.....	27c 25c
chinesensis pfitzeriana, 1-yr. pots,	
6 to 7 ins.....	27c 25c
2-yr. pots, 6 to 9 ins.....	30c 28c
glauca hetzi, 1-yr., 6 to 7 ins.....	27c 25c
Korean Boxwood, 1-yr., 3 ins.....	22c 20c
Viburnum, leather-leaved; 2-yr.	
pots, 6 to 9 ins.....	30c 28c
burkwoodi, 2-yr., 6 to 9 ins.....	22c 20c
HEAVY ROOTED CUTTINGS	
From flats, growing outside in lath house.	
Ready for delivery now.	
These extra hardy, outside-grown cuttings can be potted any time, spring, summer, fall. No soft greenhouse-grown stock.	
Each, 100 1000	
Boxwood, Korean, hardy, 3 ins.....	9c 8c
Boxwood, sempervirens.....	9c 8c
Euonymus alatus comp., 4 to 5 ins.....	9c 8c
Juniperus glauca hetzi, 5 ins.....	13c 12c
chinesensis pfitzeriana, 6 to 7 ins.....	13c 12c
Arborvitae, Pyramidal, 5 to 6 ins.....	13c 12c
American, 5 to 6 ins.....	13c 12c
TERMS: Packing and boxing free. 3 per cent discount for cash with order.	
Our stock guaranteed 100 per cent satisfactory or return within 6 days for full refund, plus full shipping charges paid.	
250 plants of each variety at 1000 rate.	

MIAMI NURSERY CO.
Corner of State Rts. 25 and 71
Tipp City, O.

EVERGREEN LINERS	
Heavy, rooted, 2 1/4-in. pots.	
Spring, 1957 delivery.	
ARBORVITAE.....	100 1000
American, dark green.....	\$20.00 \$175.00
Globe Woodward.....	20.00 175.00
Pyramidal.....	20.00 175.00
JUNIPER.....	
Andorra.....	20.00 175.00
Hetz.....	20.00 180.00
Pfitzer.....	25.00 200.00
Savin.....	20.00 180.00
Siberian.....	20.00 180.00
TAXUS.....	
Capitata.....	25.00 225.00
Cuspidata.....	22.50 200.00

EVERGREEN SEEDLINGS	
Stock grown on sandy loam.	
Seed from selected seed sources.	
ARBORVITAE, AMERICAN.....	100 1000
4 to 6 ins., 2-yr.....	\$4.00 \$35.00
6 to 9 ins., 2-yr.....	5.00 45.00
PINE, AUSTRIAN.....	
6 to 9 ins., 2-yr.....	5.00 45.00
PINE, MUGHO.....	
2 to 4 ins., 2-yr.....	4.00 35.00
4 to 6 ins., 2-yr.....	5.00 45.00
PINE, NORWAY.....	
9 to 12 ins., 3-yr.....	4.50 40.00
12 to 18 ins., 3-yr.....	5.50 50.00
PINE, PONDEROSA.....	
6 to 9 ins., 2-yr.....	4.50 40.00
9 to 12 ins., 3-yr.....	5.50 50.00
12 to 18 ins., 3-yr.....	6.50 60.00
PINE, WHITE.....	
6 to 9 ins., 3-yr.....	4.50 40.00
9 to 12 ins., 3-yr.....	5.00 45.00
SPRUCE, BLACK HILLS.....	
4 to 6 ins., 3-yr.....	4.50 40.00
6 to 9 ins., 3-yr.....	6.00 55.00
SPRUCE, COLORADO BLUE.....	
4 to 6 ins., 3-yr.....	5.00 40.00
2 to 4 ins., 2-yr.....	4.00 35.00
THE LAKE CITY NURSERIES, INC.	
Lake City, Minn.	

EVERGREENS	
ROOTED CUTTINGS	
Arborvitae, American, 6 to 8 ins.	\$8.00 \$70.00
Juniperus (Andorra) plumosa,	
6 to 8 ins.....	8.00 70.00
Retinosporas, 6 to 8 ins.....	8.00 70.00
1-YR. TRANSPLANTS	
Each, 100 1000	
Juniperus commun. suecica nana,	
4 to 5 ins.....	\$0.30 \$0.25
glauca hetzi, 8 to 10 ins.....	25 20
Retinosporas, 8 to 10 ins.....	22 18
Taxus cuspidata, 6 to 10 ins.....	25 20
2-YR. TRANSPLANTS	
Retinosporas, 10 to 15 ins.....	35 30
3-YR. TRANSPLANTS	
Arborvitae, American, 12 to 15 ins.	30 30
Retinosporas, 18 to 21 ins.....	35 30
TERMS: Orders under \$100.00, cash with order, please; orders over \$100.00, 1/2 deposit.	
NEIDEL'S NURSERY & GREENHOUSE	
Mtd. Rt. 4, Haddon Heights Oil City, Pa.	

POTTED LINERS, 2 1/4-IN.	
Hex burfordi, 6 to 10 ins.....	\$0.12
Hex rotundifolia, 5 to 10 ins.....	.10
Nandina, 4 to 8 ins.....	.10
ROOTED CUTTINGS	
Hex burfordi, 4 to 6 ins.....	\$0.03 1/2
Hex rotundifolia, 4 to 6 ins.....	.03 1/2
J. G. TSCHINKEL	
115 N. Plymouth	Huntville, Ala.

LINING-OUT STOCK	
ROOTED CUTTINGS	
Arborvitae, woodwardi,	
4 to 6-in.....	\$0.10 \$0.09
Arborvitae, nigra, green,	
4 to 8-in.....	.10 .09
Arborvitae, Pyramidal, 4 to 10.....	.10 .09
Juniper, Andorra, 4 to 8-in.....	.12 .11
Juniper, Pfitzer, 4 to 8-in.....	.12 .11
Juniper, Hetz, 4 to 8-in.....	.12 .11
Juniper, Irish, 4 to 8-in.....	.11 .10
Taxus capitata (leaders),	
4 to 8-in.....	.14 .12
Taxus cuspidata, 6 to 8-in.....	.12 .11
Taxus hicksi, 6 to 8-in.....	.12 .11
1-YR. TRANSPLANTS	
Taxus cuspidata, 6 to 8-in.....	.22 .20
Taxus hicksi, 6 to 8-in.....	.22 .20
Taxus capitata (leaders),	
6 to 10-in.....	.28 .25
Juniper, Andorra, 10 to 12-in.....	.28 .25
Taxus cuspidata, 6 to 10-in.....	.30 .28
Taxus hicksi, 6 to 10-in.....	.30 .28
Arborvitae, nigra, green,	
5 to 10-in.....	.25 .22
3-YR. TRANSPLANTS	
Taxus hicksi, 6 to 10-in.....	.40 .38
50 of a variety at 100 rate.	
250 of a variety at 1000 rate.	
GRAFTS, 2 1/4-IN. AND 2 1/2-IN. POTS	
Per 10 Per 100	
Juniper, Canaert.....	\$0.65 \$0.60
Juniper, Burk.....	.65 .60
Juniper, Keteleer.....	.65 .60
Juniper, glauca.....	.65 .60
30 of a variety at 100 rate	
Grafted Koster Blue Spruce.....	\$1.25 each
Free boxing.	
2 per cent discount, cash with order.	
DRAKE'S NURSERIES	
G-4342 Branch Rd.	Flint 6, Mich.

ROOTED CUTTINGS	
Each, 100 1000	
Taxus cuspidata.....	11c 10c
media.....	13c 12c
media andersoni.....	12c 11c
media brownii.....	13c 12c
media hicksi.....	13c 12c
media Moon's Columnar.....	13c 12c
media wardi.....	13c 12c
media wymani.....	13c 12c
repandens.....	13c 12c
Juniperus sinensis pfitzeriana.....	13c 12c
glauca hetzi.....	11c 10c
ROOTED CUTTINGS, TRANSPLANTED	
Taxus cuspidata capitata (leaders).....	15c 14c
Taxus cuspidata.....	14c 13c
Juniperus com. hor. plumosa.....	15c 14c
(Andorra).....	
J. BLAAUW & CO.	
(Wholesale Nurseries)	
Lincroft, N. J.	
Mailing addr.: P. O. Box 573, Red Bank, N. J.	

LINERS	
Each, 100 1000	
Riata aurea nana, 3 to 5 ins.....	\$0.09 \$0.08
Riata aurea nana, 5 to 7 ins.....	.13 .12
Hex burfordi, rooted cuttings.....	.07 .06
Hex burfordi, 8 to 12 ins.....	.07 .06
Hex burfordi, 12 to 15 ins.	
2-yr. trans.....	.19 .18
Hex rotundifolia.....	.04 .03 1/2
Hex rotundifolia, 9 to 12 ins.....	.16 .15
3-yr. trans.....	.16 .15
Juniperus hetzi, 4 to 6 ins.....	.09 .08
Juniperus stricta.....	.08 .07
rooted cuttings.....	.08 .07
Ligustrum lucidum, 5 to 7 ins.....	.04 .03 1/2
Pyracantha lalandi,	
rooted cuttings.....	.04 .03 1/2
THE LUSH RANCH	
140 Woodland Drive, Thomasville, Ga.	
Phone Ca 6-4245	

HEAVY ROOTED CUTTINGS	
Per 100 Per 1000	
Arborvitae, American, dark	
green; 6 to 10 ins.....	\$0.10 \$0.09
Arborvitae, Globe, 4 to 8 ins.....	.10 .09
Juniper, Hetz glauca,	
6 to 10 ins.....	.11 .10
Juniper, Pfitzer, 6 to 10 ins.....	.11 .10
Juniper, Savin, 6 to 10 ins.....	.11 .10
Juniper, Von Ehron, 6 to 10 ins.....	.11 .10
Juniper, Andorra, 6 to 10 ins.....	.11 .10
Taxus cuspidata, 6 to 10 ins.....	.12 .11
Taxus hicksi, 6 to 10 ins.....	.12 .11
Taxus bunnelliana, 6 to	
10 ins.....	.12 .11
Spring delivery.	
Cash with order earns free packing.	
DE WINTER'S NURSERY	
653 Port Sheldon Rd.	
Grandville, Mich.	

ROOTED CUTTINGS	
JUNIPERS	ARBORVITAE
2,050 Andorra	2,200 Compacta
25,200 Pfitzer, green	25,000 Brewer's hyb.
1,825 Pf. Kallay	3,200 Holman's
comp.	TAXUS
1,600 Pf. Blue	800 Brownii
2,300 Pf. Goldtip	2,600 Cuspidata
4,375 Savin	1,100 Ward's media
3,200 Meyer	3,000 Hicksi
2,600 Von Ehron	900 Hill's pyramid
1,100 Greek	
2,600 Irish	
All varieties well rooted.	
\$12.00 per 100, \$100.00 per 1000.	
Shipment April and May.	
Cash with order, please.	
LEAVENWORTH NURSERIES	
Route 3	Leavenworth, Kan.

YMAN

POTTED LINERS		
	Per 100	Per 1000
2 1/4-in. pots		
Taxus capitata, 2-yr.	\$23.00	\$220.00
Taxus cuspidata, 1-yr.	17.00	160.00
2-yr.	22.00	200.00
Taxus hicksii, 1-yr.	18.00	170.00
2-yr.	23.00	230.00
Taxus Moon's Gumnar, 2-yr.	22.00	210.00
Taxus brownii, 1-yr.	18.00	170.00
Taxus andersonii, 1-yr.	18.00	170.00
Juniperus hetzi, 2-yr.	24.00	230.00
Juniperus pfitzeriana, 1-yr.	20.00	180.00
2-yr.	24.00	230.00

TERMS: No charge for packing, 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate.

HEASLEY BROS. NURSERY
Box 218, R. D. 1 Greensburg, Pa.

LINING-OUT STOCK		
	Per 100	Per 1000
Juniper, Andorra, 8 to 10 ins.		
2-yr. transplants	\$25.00	
hetzi glauca, 8 to 8 ins., 2-yr. transpl.	20.00	
hetzi glauca, 8 to 10 ins., 2-yr. transpl.	25.00	
hetzi glauca, 10 to 12 ins., 3-yr., cut back, XX	35.00	
Ilex bullata, 1-yr. transplants	15.00	
cretata, 1-yr. transplants	15.00	
Leucothoe catesbaei, 4-yr., XX, heavy	35.00	
2-yr., X, flats	15.00	
Pieris japonica, cutting-grown		
2-yr. transplants, 4 to 6 ins.	20.00	
2-yr. transplants, 6 to 8 ins.	25.00	

All stock grown in field beds.
Cash with order, please.

SANDY LYNNE NURSERY
462 Ave. A Horsham, Pa.

CONIFERS		
	Per 100	Per 1000
Rooted cuttings for spring delivery.		
Baker, Bonita, Blue Spire, Blue Globe (same foliage as Blue Spire, only globe shape and very compact), Golden Bonita, Green Cone (known as upright Bonita).		
\$8.00 per 100, must be all one variety at 100 rate; \$7.50 per 1000, \$6.50 per 10,000, \$6.00 per 25,000 or more.		
The following in 2 1/4-in. pots: Baker, Bonita, Green Cone, Blue Spire, Excelsior, Dwarf Compact Pfitzer, Blue Globe, Mayhew.		
\$18.00 per 100, \$150.00 per 1000.		
2-yr. seed bed Nandinas, \$4.50 per 100, \$35.00 per 1000.		

POPE NURSERY
4020 Race St. Fort Worth, Tex.

EVERGREEN SEEDLINGS		
	100	1000
Scotch Pine, 2-0, 3 to 6 ins.	\$ 2.75	\$12.00
Nikko Fir, 3-0, 4 to 8 ins.	20.00	
Douglas Fir, 2-0, 4 to 8 ins.	6.00	30.00
Douglas Fir, 2-0, 6 to 10 ins.	7.00	35.00
Douglas Fir, 2-0, 2 to 4 ins.	3.00	15.00
Concolor Fir, 2-0, 2 to 4 ins.	5.00	
American Arborvitae, 2-0,		
3 to 6 ins.	5.00	25.00
Col. Blue Spruce, 2-0, 2 to 5 ins.	6.00	25.00
Col. Blue Spruce, 2-0, 4 to 8 ins.	8.00	40.00
Col. Blue Spruce, 3-0, 5 to 10 ins.	9.00	45.00
Norway Spruce, 2-0, 2 to 4 ins.	2.50	12.00

500 plants at the 1000 rate.
NEUNER'S EVERGREEN NURSERY
368 Elcher Rd. Pittsburgh 2, Pa.

QUALITY LINERS		
	Per 100	Per 1000
Blue Atlas Cedar, 12 to 18 ins., sdgs.	\$17.50	
Douglas Fir, 6 to 10 ins., tr.	17.50	
Viburnum carlesii, 4 to 8 ins., sdgs.	20.00	
Taxus capitata (from seed), 4 to 8 ins.	20.00	
Canadian Hemlock, 4 to 8 ins., tr.	20.00	
Mugho Pine (dwarf), 4 to 8 ins., tr.	20.00	
Colorado Blue Spruce, 5 to 10 ins., tr.	22.50	
Enkianthus camp., 8 to 12 ins., tr.	25.00	
Enkianthus Holly, 6 to 12 ins., tr.	27.50	
Ilex crenata, 8 to 12 ins., heavy tr.	35.00	
Rho. hybrids (red seed), 4 to 10 ins.	50.00	
Pink-flg. Dogwood, 10 to 15 ins., grafts	75.00	

Seeding list.
POSSUM HOLLOW NURSERIES
6909 Henley St. Philadelphia 19, Pa.

PINES		
	Per 100	Per 1000
Austrian Pine, 5 to 10 ins., 3-0,		
root-pruned	\$ 8.00	\$40.00
Red Pine, 6 to 12 ins., 3-0,		
root-pruned	8.00	40.00
White Pine, 4 to 10 ins., 3-0,		
root-pruned	8.00	40.00
Scotch Pine, 8 to 24 ins., 4-0,		
twice undercut	16.00	80.00
Scotch Pine, 12 to 18 ins., 4-1,		
transplants	30.00	
Scotch Pine, 8 to 12 ins., tr.	30.00	
Mugho Pine, 2 to 4 ins., 3-0,	5.00	35.00

FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

POTTED LINERS		
	Each	
Euonymus patens, large leaved,		
1-yr. from 2 1/4-in. pots	12c	
Pyracantha lalandi, 1-yr., from 3-in. pots	25c	
Pfitzer Juniper, 1-yr., from 2 1/4-in. pots	15c	
Savin Juniper, 2-yr., from 2 1/4-in. pots	20c	

F.O.B. Kansas City. Cash, please.

GLASSCOCK BROS.
6119 Agnes Ave. Kansas City 30, Mo.

JUNIPERUS CHINENSIS BLUE VASE.		
	Each	
\$20.00 per 100, \$180.00 per 1000.		
A Pfitzer sport of blue color.		
Never needs trimming for vase shape growth.		
Every bit as popular as Pfitzer.		

BRADSHAW'S NURSERY
League City, Tex.
Phone 8-4811.

EVERGREENS

CUTTINGS		
	7c	
Blue Hetz Juniper	7c	
Pfitzer Juniper	7c	
Andorra Juniper	7c	
Spreading Yew	7c	
Upright Yew	12c	
Ilex rotundifolia	5c	
Boxwood	5c	
BANDED AZALEAS		
Hinodegirl	15c	
Amoenae	15c	
Sherwood	15c	

CHARLES J. SANDERS
Monongahela-Bentleyville Rd.
Monongahela, Pa.

SURPLUS LINERS

Husky, hardy, heavily rooted.		
Quantity	1-yr. transplants	Per 100
200 Irish Juniper		\$19.00
300 Ilex crenata		19.00
2000 Taxus cuspidata		22.00
400 Taxus hicksii		22.00
100 Andorra Juniper		27.00
200 Taxus hicksii		29.00
Rooted cuttings.		
1000 Taxus cuspidata		10.00

CRUMRINE NURSERY
R. D. 2 Alliance, O.

EVERGREEN LINERS
Out of 2-in. pots. Sturdy plants for spring shipment. Cash with order, no packing charges.

	Each, per 100	
ILEX CRENATA	\$0.17 1/2	
RETINOSPORA PLUMOSA	.16	
RETINOSPORA PLUMOSA AUREA	.16	
TAXUS CUSPIDATA CAPITATA	.20	
THUJA ELEGANTISSIMA	.18	
THUJA OCCIDENTALIS	.16	

We also have Azalea liners. Write for price list.

AKEHURST NURSERIES
Joppa Rd. Fullerton, Md.
Phone Northfield 5-7588

EVERGREEN LINERS

	Each, 100	1000
PFITZER JUNIPER		
2 1/4-in. pots, 1-yr.	\$0.22 1/2	\$0.18 1/2
BURK JUNIPER		
2 1/4-in. pots, 1-yr.	.27 1/2	.22 1/2
ARMSTRONG Pfitzer JUNIPER		
2-in. pots, 2-yr.	.26 1/2	.22 1/2
WOODWARD GLOBE ARBORVITAE		
Field-grown, 4-yr.	.55	.50

TERMS: Cash with order. Free packing.
300 plants of one variety at 1000 rate.
Not less than 50 of a variety.

VOGE NURSERY
New Lebanon, O.

WELL-ROOTED CUTTINGS

	Each, 100	1000
Sargent Juniper, 5 to 8 ins.	\$0.12	\$0.11
Andorra Juniper, 5 to 8 ins.	.10	.09 1/2
Spreading Yew, 6 to 10 ins.	.10	.09 1/2
Brown's Yew, 4 to 6 ins.	.11	.10
Hatfield Yew, 4 to 6 ins.	.11	.10

25 per cent deposit on C.O.D. orders; 2 per cent discount for cash. Free packing.

WEST END GREENHOUSES
Al Nordheden
1200 N. Goodwin Ave. Urbana, Ill.

EUONYMUS PATENS

	Each	Each
	Per 100	Per 1000
12 to 15 ins.	\$ 5.50	\$ 50.00
15 to 18 ins.	7.00	65.00
18 to 24 ins.	8.50	80.00
2 to 2 1/2 ft.	11.00	100.00
2 1/2 to 3 ft.	13.50	125.00

Cash with order, no packing charge.

HAGGERTY'S LANDSCAPE NURSERY
Lincoln 6, Neb.

Picea engelmannii glauca, good color; 6-yr., TT.		
	Each	Each
	Per 100	Per 1000
450 18 to 24 ins.	\$0.75	each
270 15 to 18 ins.	.35	each
380 12 to 15 ins.	.25	each
800 8 to 12 ins.	.15	each
300 Montana Douglas Fir, 6-yr., TT.		
15 to 24 ins.	.35	each
350 Montana Abies grandis, 6-yr., TT.		
15 to 24 ins.	.35	each
Alvin H. Schnellhardt, Rt. 1, Box 193-B, Poulso, Wash.		

EVERGREENS

ROOTED CUTTINGS		
	Each	
40,000 Pfitzer Juniper	10c	
1,500 Pfitzer Hetz Juniper	10c	
2 1/4-IN. POTTED		
5,000 Hetz Juniper	20c	

TOWNSEND EVERGREEN NURSERY
S. Walnut St. Hartford City, Ind.

THUJA WOODWARDI
Field-grown, XXX.
Strong transplants.

	Each, 100	1000
6 to 8 ins.	\$0.22	\$0.17
8 to 10 ins.	.27	.20
Free packing. Cash with order, please.		
Will consider trade for other liners.		

BRIGGS NURSERY
R. 2, Box 29 Olympia, Wash.

CANADA HEMLOCK

Collected seedlings.

	Per 100	Per 1000
6 to 9-in. seedlings	\$4.00	\$20.00
9 to 12-in. seedlings	6.00	45.00
12 to 18-in. seedlings	9.00	70.00

These are first-quality, bushy Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of lining-out stock.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

EVERGREENS, ROOTED CUTTINGS

	Each, 100	1000
4000 Taxus hicksii, 6 to 8 ins.	\$0.09	\$0.08
3000 Taxus cuspidata, 4 to 6 ins.	.09	.08
4500 Taxus brownii, 3 to 5 ins.	.08	.07
3000 Ilex crenata convexa,		
2 to 5 ins.	.08	.07

We also have some 1-yr. broad-leaved liners. Cash with order.

ERDOS GREENHOUSE AND NURSERY
1046 Hudson Rd. Kent, O.

BLUE SPRUCE, GRAFTED, IN 4-IN. POTS

Northern Blue Spruce, grafted, in 4-in. pots, grown 1 yr.; 4 to 12 ins. tall, 90 per cent of these Blue Spruce are 7 to 12 ins. and are very well-branched and pot bound.

Have about 200 more on hand in greenhouse for spring delivery. Have 400 4-in. pots for sale now. Price, \$2.50 each. Pickup at nursery. Cash.

ANGELO BIFANO NURSERY
130 Mayfield Rd. Chesterland, O.

SURPLUS SEEDLINGS

	Each, 100	1000
30,000 Norway Spruce, 3-yr., 12 to 16 ins.		
Fast-growing German strain.		
30,000 Black Hills Spruce, 3-yr., 5 to 9 ins.		
Cash with order.		

STUPKA NURSERY
R. D. 1 Pulaski, Pa.

Rhododendron catawbiense grandiflora, rooted cuttings, \$50.00 per 100.		
	Per 100	Per 1000
Pieris japonica liners, 6 to 8 ins., TT.	\$30.00	\$300.00
per 100, \$250.00 per 1000; 4 to 6 ins., TT. \$20.00 per 100, \$175.00 per 1000.		
Rudolph Kluis, Box 164, R. 22, Bound Brook, N. J.		

POTTED NANDINAS

	Each, 100	1000
12,000 extra strong.		
1-yr., 2 1/4-in. pots, 5 to 6 ins. high,		
\$10.00 per 100, \$90.00 per 1000.		

EMIL R. BRESSER
P. O. Box 973 Muskogee, Okla.

JAPANESE YEW

Nice, large rooted cuttings.
Also 1-yr. Yew in 2 1/4-in. bands.

CREASY'S NURSERY
Espey, Pa.

PFITZER JUNIPER

Unrooted cuttings, 6 to 10 ins. long, \$10.00 per 1000. Cash.

KRONE'S FLOWER SHOP AND NURSERY
4221 Grand Ave. Fort Smith, Ark.

NANDINA PLANTS

3 to 4 ins. high; bed-grown, \$30.00 per 1000, \$60.00 at 1000 rate. Cash.

KRONE'S FLOWER SHOP & NURSERY
4221 Grand Ave. Fort Smith, Ark.

EVERGREENS, B&B

5000 PFITZER JUNIPER

18 to 24 ins., \$2.00

NICK'S NURSERY

Anchorage, Ky.
10 miles east of Louisville

EVERGREENS

Blue Spruce, 2 to 5 ft.
American Arborvitae, 3 ft.
Pfitzer Juniper, 3 ft.
Spreading and Upright Yew.

BEUTLER EVERGREEN ACRES
405 Freer Rd. Chelsea, Mich.

SHEARED PFITZER JUNIPER

	Each, 100	1000
500 Pfitzer, 18 to 24 ins., B&B.	\$2.75	
300 Pfitzer, 24 to 30 ins., B&B.	2.25	
200 Pfitzer, 30 to 36 ins., B&B.	4.00	

SHEARED VIRGINIANA JUNIPER
500 Virginiana, 3 to 3 1/2 ft., B&B.

YOUNG'S EVERGREEN NURSERY
R. R. 3, Box 308 LaPorte, Ind.

NORWAY SPRUCE

12 to 15 ins., \$12.50 per 10, \$100.00 per 100.
15 to 18 ins., \$15.00 per 10, \$135.00 per 100.
18 to 24 ins., \$20.00 per 10, \$175.00 per 100.

Ask for quotations on other Evergreens.

WAYNESBORO NURSERIES
Waynesboro, Va.

EVERGREENS

See our classified ad, March 15 issue, American Nurseryman, or write for complete wholesale price list.

WAYNESBORO NURSERIES, INC.
Waynesboro, Va.

EVERGREENS, B&B—Continued

SPRUCE
300 Colorado Spruce, 4 to 15 ft.
100 Koster Blue Spruce, 10 to 15 ft.
BURMAK NURSERY
95 Hillside Ave.
Van Cortlandtville, Peekskill, N. Y.
Phone Peek 7-4060.

AMERICAN ARBORVITAE
5 to 12 ft. specimen trees, 75c per ft.
6 to 10 ft., for hedge and screen, \$3.00 each.
CHAMBERLAIN'S EVERGREENS,
Ovid, Mich.

EVERGREENS, Miscellaneous

SPRING WHOLESALE PRICE LIST
LINERS, 2-yr. bedded stock 100 1000
Juniperus glauca hetzi, 12 to 14 ins. \$27.00 \$220.00
Juniper, Andorra, 12 to 14 ins. 27.00 220.00
Ilex rotundifolia, 6 to 8 ins. 25.00 200.00
Ilex rotundifolia, 8 to 12 ins. 27.00 250.00
Unnamed Rhododendron hybrids of hardy ponticum, well-branched catawbiense percentage. Good foliage with firm, lightweight ball, twice transplanted, bed-grown, Jap. beetle certified.
Per 100 Per 1000
4 to 6 ins. \$25.00 \$200.00
6 to 8 ins. 30.00 250.00
250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby. Terms: 2 per cent discount for cash with order or by express C.O.D. shipment. Open Sundays.
Balled and burlapped stock.
Pick up at nursery.
Each, 1 to 10 to 25 25 up
Juniperus glauca, 18 to 24 ins., B&B \$2.25 \$2.00 \$1.75
Ilex rotundifolia, 14 to 18 ins., B&B 2.00 1.75 1.50
LITTLE ACRES NURSERY
R. D. 2, Chardon Rd. Willoughby, O.

EVERGREENS, CONTAINER-GROWN
8 to 15 ins., 3-yr.; 1 qt. cans.
Each, 10 100
Andorra Juniper, 2-yr., 8 to 12 ins. \$0.45 \$0.40
Meyer Juniper45 .40
Silver Juniper45 .40
Savin Juniper45 .40
Truck pickup.
Lining-out stock, bed-grown, irrigated.
Each, 100 100
Andorra Juniper, 2-yr., 8 to 12 ins. \$0.12 \$0.10
Pfitzer Juniper, 2-yr., 7 to 9 ins.13 .11
Oregon Grape Holly, 3-yr., 6 to 8 ins.14 .12
8 to 12 ins., heavy17 .15
Above excess from our propagation, priced for quick sale.
Cash, please.
ERNEST MILLER NURSERY
16453 State Rd. North Royalton 33, O.

FRUIT AND NUT TREES

PEACH TREES
Sand-grown, fine fibrous roots, true to name.
June Elberta, Redhaven, Golden Jubilee, Fairhaven, Triogram, Sunhigh, Elberta, Halehaven, Summercrest, J. H. Hale, Sabberta, the new red gold and Early Haven.
9/16-in. \$6.00 per 10, \$55.00 per 100
7/16-in. 5.00 per 10, 45.00 per 100
5/16-in. 4.00 per 10, 35.00 per 100
SECOR'S NURSERY
U. S. 20, Perry, O.

PEACH TREES
100,000 for fall, 1957.
We are now open for contract.
Each 30 to 36 ins. Each
12 to 18 ins. 10c 30 to 36 ins. 18c
18 to 24 ins. 12c 3 to 4 ft. 20c
24 to 30 ins. 15c
J. A. PACK NURSERY
Route 1 McMinnville, Tenn.
Phone Mo. 8-8568

CHINESE CHESTNUTS
Per 10 Per 100
2 to 3 ft. \$ 6.50 \$ 55.00
3 to 4 ft. 9.00 80.00
4 to 5 ft. 13.00 120.00
Ask for complete wholesale price list.
WAYNESBORO NURSERIES, INC.
Waynesboro, Va.

GARDENIAS

GARDENIAS
Mystery, 12 to 18 ins. after cutting back. Radicans, 6 to 12 ins. after cutting back. Heights shown are as of late March.
In 1-gal. cans. The cans are full of perfect, nematode-free roots and the tops are heavily branched and will bloom this season. 50c each. 10 per cent extra plants given on orders of 1000 or more. Varieties can be mixed.
PATTERSON NURSERY
Route 4 Albany, Ga.
Phone HEMlock 2-1489

Turn your Surplus Stock into cash with a Classified Ad in the American Nurseryman.

GARDEN ROOTS

RHUBARB
Chipman's Canada Red Rhubarb.
No. 1 divisions, \$35.00 per 100.
25 divisions at the 100 rate.
VAN DE MOORTELL PERENNIAL GARDENS
7250 18½ Mile Rd. Utica, Mich.
MARY WASHINGTON ASPARAGUS

1-yr.-old roots.
\$12.50 per 1000.
F.O.B. Cash.
FELIX C. MCKEVICH
Route 2 Scottville, Mich.
Chipman's Canada Red and MacDonald Red Rhubarb, good No. 1 divisions. Write for prices.
Chapman's Berry Farm, East Leroy, Mich.

GRASS

MEYER Z-52 ZOYSIA LAWN GRASS
In economical, easy-to-keep turf form. Ideal for planting in new or old lawns. Makes a beautiful, dense turf that chokes out weeds and crab grass, cuts lawn work by over one-half. Thousands of square yds. sold, at up to \$45.00 per sq. yd., to people who are tired of lawn work. Our price enables you to sell cheaper or underbid other dealers. A sq. yd. equals about 400 3-in. round plugs; plants 300 to 400 sq. ft., only \$5.00 per sq. yd., F.O.B. Auburn. With soil on roots Zoysia stays fresh indefinitely and can be sold like burlapped stock. We also have Matrella and Emerald. Posters and brochures FREE. Valuable 24x48-in. outdoor sign with \$50.00 order. Write for complete information. Truckload lots delivered at attractive discounts.
BECK'S ZOYSIA CO.
861 N. College St. Auburn 1, Ala.

KENTUCKY BLUE GRASS LAWN SEED
Right from our own meadows last June. Origin and date are pinpointed, quality too.
10 lbs., \$8.00; 25 lbs., \$19.50; 50 lbs., \$38.00; 100 lbs., \$74.00. All F.O.B. here, subject unsold.
WALNUT LAWN FARM
Established 1841
Route 2 Lexington, Ky.

MEYER Z-52 ZOYSIA GRASS
State inspected.
Producers of Meyer Z-52 Zoysia, 50-plug flats available for profitable retail display sales.
Write for special dealers' prices.
MIAMI NURSERY CO.
Corner of State Rts. 25 and 71
Tipp City, O.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

GROUND COVERS

GROUND COVERS
SPRING 1957 DELIVERY.
QUALITY AND QUANTITY FOR LARGE LANDSCAPE JOBS AND GARDEN SHOP SALES.
Per 100 Per 1000
EUONYMUS fortunei (ACUTUS)
1-yr. pots \$12.50 \$110.00
2-yr. pots 15.00 140.00
EUONYMUS fortunei COLORATUS
1-yr. pots 12.50 110.00
2-yr. pots 15.00 140.00
AGUJA REPTANS RUBRA
1-yr. pots 15.00 125.00
(200 AT THE 1000 RATE)

CUNNINGHAM GARDENS, INC.
Waldron, Ind.

GROUND COVERS
Ajuga genevensis.
red and green-leaved, \$5.00 per 100.
Ajugas, variegated-leaved, \$10.00 per 100.
Euonymus fortunei coloratus,
Euonymus erectus,
Euonymus patens,
3-yr., \$20.00 per 100.
2-yr., \$15.00 per 100.
1-yr., \$10.00 per 100.
Euonymus vegetus,
2-yr., \$15.00 per 100.
1-yr., \$10.00 per 100.
Vinca minor, variegated.
Field-grown, \$30.00 per 100.
HOPPERTOWN NURSERY
P. O. Box 65 Naperville, Ill.

VINCA MINOR
(Periwinkle, hardy Myrtle)
15 to 25 canes, hand-tied clumps, extra nice, fresh handled, \$50.00 per 1000; over 5000, \$45.00 per 1000.
Hall's Honeysuckle (halliana), 3-yr., branched, \$45.00 per 1000.
Pachysandra, 1 and 2-yr., rooted cuttings, \$55.00 per 1000.
Euonymus coloratus, rooted cuttings, \$57.00 per 1000. Direct sun mist propagated.
H. C. WAUGH
Route 1 Gallipolis, O.

HARDY PLANTS

HARDY PLANTS
Field-grown, in sand loam soil. Ideal for resale and landscape use. All No. 1 stock.
Minimum order, 25 of a kind.
AQUILEGIA Crimson Star \$0.12
ANCHUSA myosotidiflora18
CAMPANULAS, mix. (Cup-and-Saucer)08
CARNATIONS, 5 colors or mixed06
CATANACHES, blue, (Cupid's Dart)06
COREOPSIS double Sunburst06
DELPHINIUM Pacific Hybrid Astolat16
DELPHINIUMS, Belladonna or Bellamoseum08
DELPHINIUM, amarette08
DIANTHUS deltoideus, pink or red16
DIANTHUS plumarius, mixed16
DIANTHUS compactus neglectus, pink12
GYPHOPHILA pacifica08
GYPHOPHILA oldhamiana, pink08
GYPHOPHILA paniculata (graftings)04
HOLLYHOCKS, red, pink, yellow, white and mixed08
HIBISCUS (Mallow Marvels), mixed08
IBERIS sempervirens, white; No. 115
IBERIS sempervirens, white; No. 208
IRIS kaempferi, mixed; 2-yr. roots15
LATHYRUS (perennial Sweet Pea), mix.08
LAVANDULA vera (Munstead), No. 114
LAVANDULA vera (Munstead), No. 208
LAVENDER perenne (blue Flax)08
LUPINE Russell Hybrids, mixed08
MATRICARIA (double white Feverfew)10
PANSY Roggli strain Swiss Giants, \$10.00 per 1000.

PANSIES, separate sorts, red, blue, yellow and white, \$12.00 per 1000.
PHLOX subulata, alba, white; atropurpurea, red; Emerald Cushion, pink, also lilac10
PHLOXES, Peril varieties, Blueette, Spirefire, July Glow, Leo Schlegeler, Alda, Thor, American Beauty, Pink Charm, No. 112
Dresden China, Sir John Falstaff, B. Comte, World Peace, Rembrandt, Sec. C. Tanager, Chas. Curtis, No. 114
PYRETHRUM HELEN (new), all double cameo-pink, No. 115
divisions20
SHASTA DAISY Alaska10
SHASTA DAISY Diener's dbl.-flowered15
TEUCRIUM (Germander) chamædrys, 2-yr.11
TRITOMA pfitzeri11
VIOLAS, apricot, white, yellow, red and blue, \$10.00 per 1000.
Carefully packed. Shipments sent via Railway Express collect. Parcel post prepaid, add 10 per cent for cost. No C.O.D.
VAN ENGEL'S KALAMAZOO GARDENS NURSERY
206 Richard Ave. Kalamazoo 33, Mich.
Phone FI 3-5909

HARDY PLANTS
Seedlings for lining-out.
Healthy, young plants with strong roots from seeds sown last June in sterilized soil.
Aquilegia Dobbie's Imperial Hybrids
Alyssum saxatile compactum
Carnation grenadin, red, pink, white, King of the Blacks
Cereopsis Double Sunburst
Delphiniums, Belladonna, Bellamoseum or Blackmore and Langdon hybrids
Digitalis (Foxglove) Giant Shirley
Dianthus, plumarius or deltoideus
Heillardia Pearly Hybrids
Gypsophila paniculata (Baby's Breath)
Hibiscus Mallow Marvels, mixed
Hollyhocks, double mixed
Iberis sempervirens (White Candytuft)
Linum (blue or yellow flax)
Oriental Poppy, scarlet
Pyrethrum rosea, mixed
Physalis (Chinese Lantern plant)
Sweet Williams, mixed colors
Tritoma (Red Hot Poker), early hybrids
Veronica spicata, blue
Shasta Daisy Alaska
25 plants of one color or variety, \$15.00.
100 plants of one color or variety, \$40.00.
1000 plants of one color or variety, \$30.00.
Terms: Cash with order.
WALTERS GARDENS
Route 2 Zeeland, Mich.

CHOICE HARDY PERENNIALS
Strong rooted cuttings, ready now!
Per 10 Per 100
Carnation Kiss of Fire, new scarlet \$1.10 \$8.00
Chrysanthemum Copper 'n' Gold, new cushion 1.00 8.00
Chrysanthemum Delight, early yellow85 7.00
Chrysanthemum early Kathleen, orange 1.10 9.00
Chrysanthemum White Tower, red pom-pom85 7.00
Lythrum Mordens Gleam, carmine75 6.00
Lythrum Mordens Rose (new), rose-red85 7.00
Veronica Iceicle, pure white85 7.00
Minimum order, \$4.00.
Complete list on request.
FLEMING'S FLOWER FIELDS
3100 Leighton Ave. Lincoln 3, Neb.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

HARDY FIELD-GROWN PERENNIALS
 Aquilegia, 7 separate colors; Arabis, Artemisia, Astilbe, Aubretia, Campanula, Carnations, Chives, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Dicentra, Digitalis, Dracopis, Galillardia, Geums, Lavender, Liatris, Russel Lupines, Lythrum, Myosotis, Phlox subulata, 15 varieties; Primroses, Pyrethrum Daisies, Shasta Daisy, Eather Read, Sedum, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Violas and Violets.
 If you haven't received our list, send for it now. 100 or more good varieties.
 All plants freshly dug for each order.
 Orders taken now for spring delivery.
 Shipping now.
GEORGE FRANK & SON
 Penfield, N. Y.

1 AND 2-YR. FIELD-GROWN PLANTS.
 Aquilegia Dobbie's Hybrids, mixed; 1-yr. \$4.50
 Canterbury Bells, mixed; 1-yr. 4.50
 Carnation Grenadin, mixed; 1-yr. 4.50
 Digitalis Giant Shirley, mixed; 1-yr. 4.50
 Garden Pinka, mixed; 1-yr. 4.50
 Pyrethrum, single mixed; 2-yr. 5.00
 Pyrethrum Robinson's Hyb., mixed; 2-yr. 6.00
 Russell Lupine, mixed; 2-yr. 6.00
 Shasta Daisy Alaska, 1-yr. 4.00
 Sweet Williams, mixed; 1-yr. 4.50
SATISFACTION GUARANTEED.
NOVOTNY GARDENS, OSAGE, IA.

FUNKIAS
 Extra nice field-grown plants. Undulate variegata (silver variegated), caerulea (large green leaves) and lancefolia (narrow-leaved), 15c each per 100; 14c each per 1000.
 Immediate shipment.
THE CZ NURSERIES, INC.
 Wholesale growers Madison, O.

RUSSELL HYBRID LUPINES, MIXED
 Grown on sandy loam with irrigation, 1-yr.-old; strong, graded plants, \$7.00 per 100.
 Ready for shipping now.
 Cash with order or C.O.D. express collect.
SCHULTZ PERENNIAL GARDENS
 Box 234 Mercer, Wis.
SALVIA, HUSKY SEEDLINGS, extra nice Bonfire, \$10.00 per 100; America, \$12.00 per 1000; St. John's Fire, \$15.00 per 1000. Packed so you need not transplant for a week or more after arrival. Shipping now.
HOLUB GREENHOUSES, Oskaloosa, Iowa

HARDY FERNS (DORMANT ROOTS)
 \$10.00 per 100, \$75.00 per 1000.
 Ostrich, Clayton, Lady, Sensitive and Maidenhair.
STRAND NURSERY CO.
 Taylors Falls, Minn.

HARDY FIELD-GROWN PERENNIALS
 We specialize in new and unusual varieties. Send for our new wholesale list.
RIBENOUR'S FLOWER FARM
 1024 W. Chicago Rd., Allen, Mich.
 America's best source for Hardy Plants is
THE WAYDE GARDENS
 Mentor, Ohio
 Write for Trade List.

WELLERS BETTER PERENNIALS
WELLER NURSERIES CO., Holland, Mich.
 Write for trade list.

HELLEBORUS
HELLEBORUS NIGER
 (Christmas Rose)
 3-yr. transplants, blooming size.
 Suitable to pot up for sales on roadside stands and garden centers.
 \$50.00 per 100, \$450.00 per 1000.
C. HOOGENDOORN
 Turner Rd., Newport, R. I.

HOLLY
ILEX
 All our Ilex are cutting-grown and well-established plants in 2 1/2-in. pots. Packed for shipment in paper cups and waterproof paper in wire-bound crates.
ILEX OPACA HOWARDI
ILEX OPACA HUME
ILEX OPACA LAKE CITY
ILEX OPACA TABER
ILEX FOSTERI
 \$18.00 per 100, \$160.00 per 1000.
ILEX C. BURFORDI
 \$18.00 per 100, \$150.00 per 1000.
ILEX C. BURFORDI, 2-yr. stock, 2 1/2-in. pot.
 \$20.00 per 100, \$170.00 per 1000.
ILEX CORNUTA FEMINA
 \$18.00 per 100, \$160.00 per 1000.
ILEX CORNUTA FEMINA, 2-yr. stock, 2 1/2-in. pot.
 \$20.00 per 100, \$180.00 per 1000.
ILEX VOMITORIA FEMINA (Yaupon)
 \$18.00 per 100, \$160.00 per 1000.
OVERLOOK NURSERIES, INC.
 R. 3, Box 428 Mobile, Ala.

ILEX
 Priced per 100 4 to 6 ins. 6 to 8 ins.
 Ilex crenata rotundifolia ... 6c 8c
 Ilex crenata convexa ... 6c ..
 Transplanted outdoor bed-grown.
B. F. PONDER
 308 6th Ave., S. Lanett, Ala.

HOLLY
 Cutting-grown, named varieties of tried and proved worth.
AMERICAN HOLLY (Ilex opaca)
 Priced per 100 2 1/2-in. pots 3-in. pots
 Croonenburg ... \$20.00 \$25.00
 Fosteri ... 17.50
 Howardi ... 25.00
 Savannah ... 20.00
 Taber ... 20.00
ORIENTAL HOLLY
 Burfordi ... 17.50
 Cornuta femina ... 17.50
 Hetsi ... 17.50
STEPHENS NURSERIES
 Semmes, Ala.

ILEX OPACA AND AQUIFOLIUM STRONG BANDED LINERS FOR SPRING SHIPMENT
 Named varieties only, including the following opaca varieties: Farage, Cardinal, Matawan, Rumson, Mr. Heavy Berry, Old Heavy Berry, xanthocarpa. Aquifolium varieties: Zimmermann No. 1 and No. 2. Japanese beetle certified.
 \$45.00 per 100.
 Old Heavy Berry, \$75.00 per 100.
JAMES B. WELLS NURSERY, INC.
 P. O. Box 141 Red Bank, N. J.

DECIDUOUS HOLLY (Ilex decidua)
 A wonderful Holly with large, bright red berries; vigorous upright growth; disease-free, drought-resistant, hardy to minus 15 degrees.
 Heavy plants, 18 to 24 ins., \$30.00 per 100.
 2 to 3 ft., \$45.00 per 100.
 FREE with each 50 plants, 1 berried specimen.
WARREN & SON NURSERY
 R. 11, Box 612
 Oklahoma City 10, Okla.

ILEX OPACA FEMINA
 Heavy 1-yr. liners, potted spring 1956, from selected heavy, berried specimens.
 6 to 8-in. plants, from 2 1/2-in. pots or deep soil cans, \$30.00 per 100.
 A few male plants at the same price.
WARREN & SON NURSERY
 Rt. 11, Box 612
 Oklahoma City, Okla.

THE FINEST DWARF EVERGREEN
 2000 Ilex c. helleri, 4 to 8 ins. high, 6 to 8 wide, 2 1/2 x 4-in. pots; has been potted 2 growing seasons. Plants will bring nice profit in 1 to 2 years. Outgrowing pots; must sell. A 40c bargain for 30c. 100 minimum order. Only 25c each per 1000. Express collect.
BUCHANAN'S NURSERY
 5108 Western Blvd., Raleigh, N. C.
 Dial TE 2-9914

CAPE COD HOLLY (Ilex opaca)
 Ready for shipping, 1000 rooted cuttings in 2 1/2-in. peat Jiffy-Pots, 25c each. From selected female trees located on the Cape. Packed at cost in lots of 100 or more.
 If desired, 10 males can be included in every 100.
H. V. LAWRENCE, INC.
 The Cape Cod Nurseries
 Falmouth, Mass.

ILEX OPACA FEMINA
 Rooted cuttings, potted 1 full year.
 Clark, Farage, Manig, Mae, Osa and Arden, 2 1/2-in. pots, 6 to 8 ins., \$45.00 per 100.
HOOKSTRAW (Old Heavy Berry), 2 1/2-in. pots, 6 to 8 ins., \$65.00 per 100.
SPLIT ROCK NURSERIES
 218 Farview Ave., Paramus, N. J.

ILEX OPACA
SUPERIOR NAMED VARIETIES
WHOLESALE SUPPLIERS
 OF LINING-OUT STOCK.
 Write for price list.
HOLLY HAVEN, INC.
 Box 75 New Lisbon, N. J.
ILEX ROTUNDIFOLIA
 Branched, 2 1/2-in. pots, 12 1/2 c.
WELCH BROS. NURSERY
 Wilmer, Ala.
 Turn Stock Into Dollars
 by Listing It in the Classified Ads
 of the American Nurseryman.

HONEYSUCKLES
HONEYSUCKLES
 Lonicera japonica halliana, extra-heavy No. 1, 2 and 4-yr., 18 to 24-in. field plants, 2, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: Or 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.
 Lonicera japonica halliana (Hall's Honeysuckle), heavy, 12 to 18-in. clumps, \$6.00 per 100, \$50.00 per 1000.
 Mrs. R. L. Robinson, Greenville, Ga.
HONEYSUCKLE HALL'S JAPONICA
 Collected from our nursery; any amount, \$20.00 per 1000.
MOUNTVILLE NURSERIES, Mountville, Ga.

Start Your Offer Now
 in the American Nurseryman
 And Watch Sales Climb

IVIES
ENGLISH IVY (HEDERA HELIX)
 Hardy, 8-in., well-rooted cuttings. Can supply in large or small leaved, \$50.00 per 1000; over 5000, \$45.00 per 1000.
 Baltic Ivy, good stock, nice roots, \$55.00 per 1000.
 Indian Rock, very hardy, 1-yr. rooted cuttings, \$60.00 per 1000.
 Boston Ivy, rooted cuttings, \$55.00 per 1000.
IVY DALE NURSERY
 Upper River Rd. Gallipolis, O.

BALTIC IVY
 Hardest Ivy. Fine for wall or ground cover. True stock. Well rooted plants, 5 to 12-in. vines. Per 100 Per 1000
 2-in. pots \$12.50 \$115.00
 2 1/2-in. pots 1-yr. 20.00 190.00
STRATFORD GARDENS
 Russell Breece, Mtd. Rt. 9 Delaware, O.

LINING-OUT STOCK
EVERGREENS
 Andorra Juniper, 6 to 10 ins., bare-root \$0.06
 Andorra Juniper, 6 to 10-in. bands .14 1/2
 Blue Hets Juniper, 6 to 8 ins., bare-root .06
 Dwarf Fötzer (nana or Armstrong) Juniper, 6 to 8-in. bands .20
 Pfitzer Juniper, 6 to 8-in. bands .14 1/2
 Pfitzer Juniper, 8 to 10-in. bands .20
 Savin Juniper, 6 to 10 ins., bare-root .06
 Von Elron Juniper, 8 to 10 ins., bare-root .06
 Procumbens Juniper, 6 to 8-in. bands .20
DECIDUOUS BARE-ROOT
 Buddleia, best blue; 6 to 10 ins. .06
 Buddleia, best red; 6 to 10 ins. .06
 Buddleia Snowbank, 6 to 10 ins. .06
 Blue-leaved Arctic Willow, 6 to 8 ins. .05
 Chinese Privet, Wayside Gardens strain, 6 to 10 ins. .03 1/2
 Forsythia nana compacta, 3 to 5 ins. .06
 Forsythia Arnold's Giant (new dwarf), 4 to 5 ins. .06
 Forsythia Lynwood Gold, 6 to 10 ins. .06
 Forsythia Spring Glory, 6 to 10 ins. .04
 Hypericum Hicotea, 4 to 6 ins. .08
 Spiraea foebeli, 3 to 5 ins. .03 1/2
 Viburnum tomentosum, 4 to 5 ins. .08
 Weigela Eva Rathke, 3 to 4 ins. .06
 Weigela vaniceki, 3 to 4 ins. .06
 Weigela, dwarf variegated, 3 to 4 ins. .05
BROADLEAFS
 Euonymus coloratus, 6 to 10 ins. .03 1/2
 Euonymus patens, small, medium or large-leaved, 6 to 10 ins. .04
 Euonymus patens (Newport), 6 to 8 ins. .08
 Euonymus carrierei, 6 to 8 ins. .06
 Pyracantha lalandi, 5 to 6 ins. .05
 Pyracantha Kanan, 5 to 6 ins. .12
 Variegated-leaved (Gold Net) Honeyuckle vine, 4 to 6 ins. .06
 Euonymus radicans, upright (Sarcoxie), 4 to 6 ins. .08

PERENNIALS
 Lavandula vera .04
 Teucrium chamaedrys .04
 Less than 500 total order, add 3c per plant.
MCININCH GREENHOUSES
 St. Joseph, Mo.

LINING-OUT STOCK
 Per 100 Per 1000
 Acer palmatum atropurpureum 1-yr. grafts, beds \$90.00 \$850.00
 Acer platanoides, 1-yr. seedlings, 4 to 6 ins. 7.00 60.00
 Acer pseudoplatanus, 1-yr. seedlings, 4 to 6 ins. 6.00 50.00
 Azalea hinodegiri, 2-yr., T, beds, 4 to 6 ins. 50.00 450.00
 Azalea mollis, 3-yr., TT, fr. 6 to 9 ins. 35.00 300.00
 Berberis thunbergi, 2-yr., T, fr. 9 to 12 ins. 8.50 75.00
 Buxus Newport Blue, 3-yr., TT, fr. 9 to 12 ins. 35.00 300.00
 Callicarpa japonica, 1-yr. seedlings, 6 to 9 ins. 6.00 50.00
 Cotoneaster divaricata, 2-yr., T, fr. 9 to 12 ins. 30.00 250.00
 Cydonia japonica, 1-yr. seedlings, 9 to 12 ins. 4.50 35.00
 Cydonia japonica, 2-yr., T, fr. 12 to 18 ins. 10.00 90.00
 Gleditsia triacanthos, 1-yr. seedlings, 6 to 9 ins. 7.50 70.00
 Gleditsia triacanthos, 1-yr. seedlings, 4 to 6 ins. 6.00 50.00
 Koeleruteria paniculata, 1-yr. seedlings, 6 to 9 ins. 7.50 70.00
 Pieris japonica, 1-yr., TT, beds 10.00 90.00
 Rosa multiflora, seedlings, 2 to 3 mm. 2.50 12.00
 2 to 6 mm. 3.50 22.00
 grafting size 5.00 40.00
 Tilia cordata, 1-yr. seedlings, 4 to 6 ins. 8.00 75.00
 Wistaria sinensis, 1-yr. seedlings, grafting size 5.50 45.00
 Zeltkova serrata (sub. for Am. Elm), 1-yr., S, 6 to 9 ins. 15.00 120.00
 (Not subject to Dutch Elm disease.)
 T, once transplanted; TT, twice transplanted; fr, field row.
BOULEVARD NURSERIES
 Newport, R. I.

LINING-OUT STOCK—Continued

1-YEAR BEDDED-OUT STOCK		
	Per 100	Per 1000
<i>Ilex bullata</i>	\$20.00	\$180.00
<i>rotundifolia</i>	20.00	180.00
<i>crenata</i>	20.00	180.00
<i>hetzi</i>	20.00	180.00
<i>Juniperus pfitzeriana</i>	20.00	180.00
<i>hetzi</i>	20.00	180.00
<i>Magnolia soulangeana</i> , 2-yr. beds	75.00	.....
<i>soulangeana</i> , 2-yr. beds	75.00	.....
<i>rustica rubra</i> , 2-yr. beds	75.00	.....
<i>stellata</i> , 2-yr. beds	75.00	.....
<i>Taxus hicksii</i>	17.50	150.00
<i>hathfieldi</i>	17.50	150.00
<i>brownii</i>	17.50	150.00
<i>wardii</i>	20.00	175.00
<i>cuspidata</i>	17.50	150.00
<i>intermedia</i>	17.50	150.00
<i>Vermeulen</i>	17.50	150.00
<i>brevifolia</i>	20.00	.....
<i>capitata</i> , 2-yr. tr. sdgs.	10.00	90.00

ROOTED CUTTINGS FROM SAND

Ready May.		
	Per 100	Per 1000
<i>Buxus arborescens</i>	\$ 6.00	\$ 50.00
<i>Juniperus pfitzeriana</i>	11.00	100.00
<i>hetzi</i>	11.00	100.00
<i>Ilex hetzi</i>	10.00	80.00
<i>rotundifolia</i>	10.00	80.00
<i>convexa</i>	10.00	80.00
<i>helleri</i>	10.00	80.00
<i>Taxus andersonii</i>	11.00	100.00
<i>cuspidata</i>	10.00	80.00
<i>hicksii</i>	10.00	80.00
<i>brownii</i>	11.00	100.00
<i>wardii</i>	11.00	100.00
<i>brevifolia</i>	15.00	125.00
<i>capitata</i> , leaders	15.00	125.00
<i>intermedia</i>	11.00	100.00
<i>hathfieldi</i>	11.00	100.00
<i>canadensis stricta</i>	11.00	100.00
<i>hunnelliana</i>	11.00	100.00
<i>Adams</i>	15.00	125.00
<i>Vermeulen</i>	11.00	100.00
<i>cuspidata nana</i>	11.00	100.00
<i>repandens</i>	11.00	100.00
<i>Moon's Columnar</i>	11.00	100.00

Special price on large quantity.

SEEDLINGS AND TRANSPLANTS

	Per 100	Per 1000
<i>Abies Douglas</i> , 2-yr.	\$ 4.00	\$ 35.00
3-yr.	6.00	50.00
<i>Acer palmatum</i> , 1-yr.	6.00	50.00
<i>Cornus florida</i> , 1-yr.	6.00	50.00
No. 2, 1-yr.	5.00	40.00
2-yr. transplanted	15.00	125.00
<i>Euonymus alatus</i> , 2-yr.	6.00	50.00
<i>alatus compactus</i> , 2-yr.	6.00	50.00
<i>Ilex crenata</i> , 2-yr.	7.00	60.00
<i>Picea excelsa</i> , 3-yr.	3.50	30.00
<i>bungensis</i> , 3-yr.	5.00	40.00
<i>Pinus austriaca</i> , 2-yr.	4.00	30.00
<i>densiflora</i> , 2-yr.	6.00	50.00
<i>mughus</i> , 2-yr.	5.50	50.00
<i>resinosa</i> , 2-yr.	6.00	50.00
<i>syvestris</i> , 2-yr.	3.00	25.00
<i>strobus</i> , 2-yr.	4.50	40.00
<i>Syringa vulgaris</i> , 2-yr.	20.00	.....
<i>Taxus capitata</i> , 1-yr., S.	5.00	40.00
transplanted, 1-yr., S.	6.00	50.00
2-yr., S.	10.00	90.00
transplanted, 2-yr., S.	10.00	90.00
<i>Tsuga canadensis</i> , 2-yr.	9.00	80.00
transplanted, 6 to 9 ins.	16.00	150.00
<i>Viburnum wrightii</i> , 1-yr., S.	10.00	90.00
<i>thetiferum</i> , 1-yr., S.	10.00	90.00

POT-GROWN GRAFTS, May shipment.

	Per 100
<i>Acer polymorphum atrop.</i>	\$ 75.00
<i>dissectum atrop.</i>	75.00
<i>Abies nobilis glauca</i>	100.00
<i>pinus glauca</i>	100.00
<i>Carpinus fastigiata</i>	60.00
<i>Cornus florida rubra</i>	50.00
<i>florida rubra proser.</i>	65.00
<i>florida fl. plena</i>	60.00
<i>florida weichi var.</i>	65.00
<i>florida fl. pendula</i>	60.00
<i>Hamamelis mollis</i>	50.00
<i>Fagus sylvatica riversi</i>	60.00
<i>sylvatica heterophylla</i>	60.00
<i>sylvatica pendula</i>	60.00
<i>sylvatica fastigiata</i>	60.00
<i>sylvatica tricolor</i>	75.00
<i>Picea moerhousii</i>	100.00
<i>Magnolia lanni</i>	75.00
<i>stellata</i>	75.00
<i>stellata rubra</i>	75.00
<i>stellata Waterlily</i>	75.00
<i>parviflora</i>	75.00
<i>Pinus strobus nana</i>	60.00
<i>strobus pendula</i>	60.00
<i>parviflora glauca</i>	60.00
<i>wateriana glauca</i>	60.00
<i>tanyzhoo</i>	60.00
<i>Retinospora obt. crispae</i>	50.00
<i>obt. gracilis</i>	50.00
<i>Viburnum carlesii</i>	50.00
<i>burkwoodii</i>	50.00

HEAVY, FIELD-GROWN.

BARE-ROOT, SALABLE STOCK.

	Per 100
<i>Acer polymorphum atrop.</i> , 12 to 15 ins.	\$300.00
15 to 18 ins.	400.00
<i>Franklinia alatamaha</i> , 2 to 3 ft.	250.00
<i>Viburnum theiforum</i> , 18 to 24 ins.	60.00

Complete wholesale list on request.

VERKADE'S NURSERIES, Wayne, N. J.

LINING-OUT LIST

PRICES SUBJECT TO CHANGE

WITHOUT NOTICE
ALL POTTED LINERS ON THIS LIST
ARE PRICED FOR SHIPMENT IN PAPER
POTS OR CUPS. THOSE WHO PREFER
THE ORDINARY METHOD OF PACKING,
OMITTING THIS ADDED PROTECTION,
MAY DEDUCT 1c PER PLANT. THE 1000
RATE APPLIES ON ALL ORDERS THERE-
FORE, PLEASE ORDER IN MULTIPLES
OF 25 OR MORE.

	EACH, PER 1000
BIOTA AUREA PYRAMIDALIS	
COMPACTA	
2 1/4-in. pots	\$0.18
2 1/2-in. pots .....	.20
BIOTA BAKERI	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
BIOTA BONITA	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
BIOTA SIBYLI	
2 1/4-in. pots .....	.18
2 1/2-in. pots .....	.20
CEDRUS DEODARA	
6x8-in. seedlings .....	.10
2 1/4-in. pots .....	.15
2 1/2-in. pots .....	.17
JUNIPERUS CHINENSIS PFITZERIANA	
2 1/4-in. pots .....	.16
JUNIPERUS CHINENSIS PFITZER- IANA NANA	
2 1/4-in. pots .....	.20
2 1/2-in. pots .....	.25
JUNIPERUS CHINENSIS FORTUNEI	
2 1/4-in. pots .....	.12
JUNIPERUS CHINENSIS VIRIDIFOLIA	
2 1/4-in. pots .....	.22 1/2
JUNIPERUS COMMUNIS CRACOVIA (Polish Juniper)	
2 1/4-in. pots .....	.15
JUNIPERUS HORIZONTALIS	
PLUMOSA (Andorra Juniper)	
2 1/4-in. pots .....	.17
JUNIPERUS VIRGINIANA KETEELEERI	
2 1/4-in. pots .....	.20
JUNIPERUS GLAUCOA HETZI	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.18
TAXUS CUSPIDATA	
2 1/4-in. pots .....	.17
3-in. pots .....	.20
AZALEA CHRISTMAS CHER	
2 1/4-in. pots .....	.15
BUXUS SEMPERVIRENS CRONI	
2 1/4-in. pots .....	.20
2 1/2-in. pots .....	.22 1/2
BUXUS JAPONICA	
6x8-in., TTT, field-grown .....	.22 1/2
3-in. pots .....	.25
CAMELLIA SASANQUA (Dawn)	
2 1/4-in. pots .....	.16
CAMELLIA SASANQUA MAIDEN'S BLUSH	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.18
ELEAGNUS FRUITLANDI	
2 1/4-in. pots .....	.17
EUONYMUS MIFPHYLLA	
PULCHELLA (dwarf)	
2 1/4-in. pots .....	.16
6x8-in., TTT, field-grown .....	.30
EUONYMUS PATENS , large leaf	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
EUONYMUS RADICANS ERECTA	
2 1/4-in. pots .....	.16
GARDENIA FORTUNEI	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
GARDENIA RADICANS	
2 1/4-in. pots .....	.16
ILEX CRENATA ROTUNDIFOLIA	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
ILEX CORNUTA BURFORDI	
6x8-in. transplants .....	.12
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
3-in. pots .....	.25
ILEX CORNUTA FEMINA	
2 1/4-in. pots .....	.18
2 1/2-in. pots .....	.20
ILEX OPACA EAST PALATKA	
2 1/4-in. pots .....	.18
2 1/2-in. pots .....	.20
ILEX OPACA FEMINA	
2 1/2-in. pots .....	.30
JASMINUM FLORIDUM	
Rooted cuttings .....	.10
2 1/4-in. pots .....	.15
LAUROCARASS CAROLINIANA (Cherry Laurel)	
2 1/4-in. pots .....	.15
2 1/2-in. pots .....	.15
MAHONIA BEALEI	
3-in. pots .....	.25
NANDINA DOMESTICA	
2 1/4-in. pots .....	.10
2 1/2-in. pots .....	.12
3-in. pots .....	.16
PITTOSPORUM TOBIRA	
2 1/4-in. pots .....	.16

(Continued in next column.)

(Continued from previous column.)

PODOCARPUS MACROPHYLLUS	
2 1/4-in. pots .....	.16
2 1/2-in. pots .....	.17
TEUCRIUM CHAMAEDRYS	
(Dwarf perennial for borders)	
2 1/4-in. pots .....	.15
6x8-in., TTT, field-grown .....	.25
ACER PALMATUM ATROPURPUREUM	
2 1/4-in. pots .....	.20
2 1/2-in. pots .....	.25
3-in. pots .....	.35
BERBERIS THUNBERGI	
ATROPURPUREUM	
2 1/4-in. pots .....	.16
CORNUS FLORIDA	
2 1/2-in. pots .....	.16
LONICERA FLAMING BEAUTY	
2 1/4-in. pots .....	.15
2 1/2-in. pots .....	.18
MAGNOLIA SOULANGEANA	
2 1/2-in. pots .....	.30
MAGNOLIA SOULANGEANA AMABILIS	
2 1/2-in. pots .....	.30
SPIRAEA ANTHONY WATERER	
2 1/2-in. pots .....	.10
2 1/2-in. pots .....	.12

LINING-OUT STOCK

Per 100	4 to 6X	6 to 8X	8 to 10X
<i>Abelia grandiflora</i> , 1-yr. T.	\$17.50	.....	.....
<i>Arbutus boottii</i>	19.00	\$24.00	.....
comp. Parsons	24.00	\$29.00	.....
<i>Columba</i>	24.00	29.00	.....
<i>elegantissima</i>	24.00	29.00	.....
<i>Berberis julianae</i>	21.00	25.00	33.00
<i>Ilex convexa bullata</i>	15.00	19.00	23.00
<i>crenata</i>	18.00	23.00	.....
<i>macrophylla</i>	15.00	18.00	.....
<i>Juniperus andersonii</i>	25.00	28.00	.....
<i>Hetz glauca</i>	24.00	29.00	.....
<i>Savin</i>	18.50	23.50	.....
<i>Von Ehrh</i>	19.00	.....	.....
<i>Osmanthus aquifolium</i>	19.00	24.00	.....
<i>Retinospora juniperoides</i> , 19.00	24.00	.....	.....
<i>plumosa</i>	19.00	.....	.....
<i>Taxus cuspidata</i>	19.00	24.00	.....
<i>Arb. Douglas aurea</i> , 10 to 12X	34.50	.....	.....
<i>globosa</i> , 8 to 10X	29.00	.....	.....
<i>Leucothoe catesbaei</i> , 8 to 12X	32.50	.....	.....
<i>Retinospora filifera</i> , 10 to 12X	30.00	.....	.....
<i>Gouldst</i> , 9 to 12X	28.00	.....	.....
<i>leutescens</i> , 12 to 14X	30.00	.....	.....
<i>aquosa veitchii</i> , 12 to 14X	30.00	.....	.....

No packing charges. Write for complete list.

ESHAM'S NURSERIES

Millboro, Del.

LINING-OUT STOCK.

	Each, 100 1000
PIERIS JAPONICA , 2-yr. transplants, 5 to 10 ins.	\$0.30 \$0.25
ACER PALMATUM ATROPURPUREUM (true red), well-branched, from cuttings, 2 years in nursery rows; 6 to 8 ins. br. ....	.85 .75
HARDY AZALEAS , 1-yr. cuttings (70 to flat), \$9.00 per 100: Aladdin, Blauus Pink, Fedora, Herbert, Hino-Crimson, Kathleen, Mary Ann, Othello, Paestrina, Rosebud, Zampa.	
HYBRID RHODODENDRONS , rooted cuttings with peat balls, 60c per 100: Nova Zemba, roseum elegans, English roseum, Cunningham White.	
CALL ORDERS ONLY ON AZALEAS AND RHODODENDRONS.	
PRICES ON AZALEAS AND RHODODEN- DRONS APPLY TO ASSORTED LOTS: ADD 20 PER CENT FOR SPECIFIED VARIE- TIES.	
GERARD K. KLYN, INC., MENTOR, O. Wholesale Rose Growers and Nurserymen.	

GOLDEN GOOSE LINERS

For immediate delivery or for reservation.
All quotations are for beautiful lining-out
stock, from 2 1/4-in. pots, grown in open beds,
under field conditions and ready for field
planting.

	Per 100
<i>Ilex cornuta burfordi</i> , 10 to 12 ins.	\$15.00
<i>Ilex cornuta burfordi</i> , 6 to 8 ins.	12.00
<i>Ilex cornuta femina</i> , 10 to 12 ins.	16.00
<i>Ilex cornuta femina</i> , 6 to 8 ins.	13.00
<i>Ilex crenata rotundifolia</i> , 6 to 8 ins.	12.00

TERMS: Packing without cost. 25 per cent
with order, balance C.O.D. Minimum 50 of a
kind, please.

EVERGREEN NURSERIES

Poplar Pike

Germantown, Tenn.

ROOTED CUTTINGS

Pfitzer Juniper, 6c; Abellias, 4c; Euonymus
japonicus, 4c; Pyracantha lalandi, 5c.
2 1/4-in. pots: Pfitzer Juniper, 10c; some extra
nice Pfitzers, 8 to 15 ins., 12 1/2c; Euo-
nymus japonicus, 10c; large red-berried Pyra-
cantha, 10c; Pyracantha lalandi, 10c; Bur-
ford Holly, 10c.
CARDEN'S NURSERY AND CUT FLOWERS
4201 North St. Fort Smith, Ark.

LINING-OUT STOCK

Cutting-grown transplants.

	6-8 ins.	8-12	12-18
Buxus harlandi	\$ 2.50	.....	.....
4 to 6 ins., \$10.00			
Gardenia Mystery	.....	\$12.50	\$15.00
Gardenia stricta nana	10.00	12.50	15.00
Ilex opaca fosteri	15.00	17.50	22.50
Ilex opaca howardi	15.00	20.00	.....
Ilex crenata rotundifolia	12.50	.....	.....
4 to 6 ins., \$10.00			
Ligustrum lucidum	10.00	12.50	.....
Magnolia soulangeana	.....	25.00	.....
Spiraea reevesiana	.....	.....	20.00
(field-grown)	.....	.....	20.00
Camellia sasanqua rosea	.....	.....	20.00

STEPHENS NURSERIES

Semmes, Ala.

EXTRA FINE LINERS

	Per 100	Per 1000
Euonymus radicans, 2-yr.,	.....	.....
2 1/4-in. pots	\$30.00	\$150.00
Euonymus radicans coloratus,	.....	.....
2-yr., 2 1/4-in. pots	20.00	175.00
Spiraea Anthony Waterer,	.....	.....
2 1/4-in. pots	15.00	125.00
Honey Locust, thornless, 2-yr. seedlings	.....	.....
9 to 12 ins.	3.50	30.00
12 to 18 ins.	4.50	40.00
18 to 24 ins.	5.50	50.00
Thuja orientalis, 3-yr. transplants	10.00	75.00

BORK NURSERY

Onarga, Ill.

Phone AM 8-7267

LINING-OUT STOCK

	Per 100	Per 1000
Ilex glabra, heavy, 2-yr. transplants	\$40.00	\$350.00
Ilex rotundifolia, strong 2-yr. transplants, to 9 ins.	40.00	350.00
Prunus tomentosa (Nanking Cherry), 1-yr. seedlings, 6 to 10 ins.	10.00	75.00
Viburnum carlesii, 2-yr. seedlings, 8 to 12 ins.	30.00	250.00
Strong 4-yr. transplants, 15 to 18 ins., branched, field rows, suitable for mail order	75.00	600.00

C. HOOGEENDOORN

Turner Rd., Newport, R. I.

EVERGREEN LINERS

	Per 100
Junipers	.....
Pfitzer, 4-yr., XX, heavy	.....
sheared, 12 to 15 ins.	\$55.00
Pfitzer, 3-yr., XX, to 12 ins.	40.00
Von Ehron, XX, heavy, 12 to 15 ins.	55.00
EUROPEAN WHITE BIRCH LINERS	.....
2 to 3 ft.	\$16.00
3 to 4 ft.	26.00
4 to 5 ft.	40.00

These are fine for sales lots.

Deduct 10 per cent for cash with order.

DAMASCUS NURSERIES

Damascus, O.

LINING-OUT STOCK

	4 to 6 ins.	6 to 8 ins.
Buxus japonica	8c
Buxus harlandi	8c
Buxus radicans	8c
Gardenia veltchii	10c
Gardenia fortunei	8c
Burford Holly	10c
Ilex bullata	8c
Ilex rotundifolia	8c
Ligustrum lucidum	8c
Pittosporum	8c
Woodward Globe Arborvitae	10c

FLOWERWOOD NURSERY, INC.

P. O. Box 185, Cairo, Ga.

LINING-OUT STOCK

	Per 100	Per 1000
Cherry Laurel, 6 to 12 ins.	\$ 2.50	\$20.00
Cherry Laurel, 12 to 18 ins.	4.00	35.00
Cherry Laurel, 18 to 24 ins.	6.00	50.00
American Holly, 3 to 6 ins.	5.00	40.00
American Holly, 6 to 12 ins.	10.00	90.00
Taupeon Holly, 6 to 12 ins.	5.00	40.00
Taupeon Holly, 12 to 18 ins.	7.00	60.00
Magnolia glauca, 4 to 8 ins.	5.00	40.00
Abelia grand., 4 to 8 ins.	6.00	50.00
Abelia grand., 8 to 12 ins.	6.00	50.00

L. H. BUTTER NURSERY CO.

Box 205, Forest Hill, La.

ILEX ROTUNDIFOLIA

2-yr., bed-grown, \$50.00 per 100.

TAXUS CAPITATA AND HICKSI

2-yr., field-grown, \$1.25 each.

1-yr., field-grown, 75c each.

LINING-OUT STOCK OF HARDY AZALEAS

Hinodegiri, 3 to 5, 35c each; 4 to 6, 45c.
Hino-Crimson, 3 to 5, 35c each; 4 to 6, 45c.
Amoena, 3 to 5, 35c each; 4 to 6, 45c.
Othello, 4 to 5, 55c each; 5 to 6, 85c.

DIRKMAAT AZALEA FARM

P. O. Box 453, 516 Stevens Ave.

Ridgewood, N. J.

LINING-OUT STOCK

See our 2-page display ad in the April 1 issue of the American Nurseryman, or write for price list.

WILLIS NURSERY CO.

Ottawa, Kan.

TAXUS

	Per 100	Rooted cuttings	2 1/4-in. pots
Fastigiata	\$10.00	\$20.00
Cupressata	8.00	16.00

HILLCREST GREENHOUSES, Franklin, Pa.

FINER LINERS

OF ORNAMENTAL ARISTOCRATS

The best is always a bargain. Our liners are FINER LINERS because of our generations of experience. Let us send you our new spring, 1957 catalog which lists seeds to field-grown transplants and specimen ornamentals.

Come see us if you can.

JOHN VERMEULEN & SON, INC.

Phone FOXcroft 9-5211

Neshanic Station, N. J.

ROOTED CUTTINGS FROM OPEN BEDS

Euonymus, 4000 radicans, upright (Sarcocoe); 300 patens, large-leaved; 2500 patens, small-leaved; 200 vegetus, 300 coloratus, 7c each per 100; 5c each per 1000.
Heavy field transplants, 150 Euonymus patens, small-leaved, 12 to 15 ins., 50c each. Prices include packing and delivery. Cash with order, please.
EDGAR C. FOX NURS., Humansville, Mo.

EUONYMUS VEGETUS

From strong rooted cuttings, transplanted from rooting medium into beds and grown ONE FULL year.

14c each, up to 500; 12 1/2c each, over 500. Please send remittance with order unless credit is established with us. 3 per cent off and free packing. F.O.B. here.

MENTOR ROSE GROWERS, INC.

445 Little Mt. Rd., Mentor, O.

FLORETUM LINE-OUTS, NONE BETTER

No storage or collected stock. All outside nursery-grown. Dug fresh on order. Coniferous and broad-leaved Evergreens. Modern shade and ornamental trees. Shrubs, hedges, vines, ground covers. Perennials, colorful Mums.

Prices reasonable. Write for listing.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

RED-LEAVED JAPANESE BARBERRY

Nice lining-out stock 100 1000
6 to 9 ins., 2-yr., \$ 5.00 \$50.00
9 to 12 ins., 2-yr., \$ 7.50 65.00
12 to 18 ins., 2-yr., \$12.50 100.00
72-page wholesale catalog, free.

TINGLE NURSERY CO., PITTSVILLE, MD.

MAGNOLIAS

MAGNOLIA GRANDIFLORA

2 1/4-in. pots, pointed last spring, 4 to 8 ins. high, \$15.00 per 100. Shipped in clay pots unless instructed to remove. \$140.00 per 1000 here, you pick up. In gallon cans, 18 ins. to 3 ft. high, not heavy in leaf, excellent item for large cans or field, 60c each; no shipping this item. Many sizes of field, B&B. Interested in outstanding specimen trees. Cash and no charge for packing.

HARWELL NURSERY, VAN BUREN, ARK.

ORIENTAL MAGNOLIAS

Soulangeana, 2 1/4-in. pots30c

Soulangeana nigra, 2 1/4-in. pots30c

WELCH BROS. NURSERY

Wilmer, Ala.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

MAPLES

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

6 to 8 ft.	.....	10-49	50-250
8 to 10 ft., 1 to 1 1/4-in.	.....	4.40	3.50
9 to 11 ft., 1 1/4 to 1 1/2-in.	.....	6.00	6.00
10 to 12 ft., 1 1/2 to 1 3/4-in.	.....	8.80	7.00
11 to 13 ft., 1 3/4 to 2-in.	.....	11.00	9.00

PRINCETON NURSERIES

Princeton, N. J.

MAPLES

Sugar and Norway Maples, 8 to 10 and 10 to 12 ft. Nice trees, priced right. Send for spring list of specimen ornamentals, and liners of broadleaf Evergreens and Azaleas.

THE TANKARD NURSERIES

Exmore, Va.

200 NORWAY MAPLE

1 1/2 to 2-in., well-branched and straight.

\$5.50. May be seen growing at Onarga, Ill.

FAIRVIEW LANDSCAPE SERVICE

Onarga, Ill.

COLLECTED ACER

RUBRUM AND SACCHARINUM,

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

PACHYSANDRAS

PACHYSANDRAS

1-year-old, large frame-grown plants.

Satisfaction guaranteed.

Large quantity.

\$5.00 per 100, \$40.00 per 1000.

\$38.50 per 5000.

BRUNDAGE & GUTHRIE

123 Franklin St., Tarrytown, N. Y.

PACHYSANDRAS

Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000. F.O.B. Elizabeth, N. J.

DELAWARE VALLEY NURSERY

948 N. Broad St., Elizabeth, N. J.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.

DUNWOODIE NURSERIES

6 Smart Ave., Yonkers, N. Y.

PACHYSANDRA TERMINALIS

Strong 1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

PANSIES

PANSIES

All field-grown in sand loam soil (August, 1956 sown).

Rogall strain Giant Swiss, mixed; row crop

Separate sorts, 4 colors; choice row crop

Violas, separate sorts, 4 colors; choice row crop

..... \$10.00

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PIERIS—Continued

PIERIS JAPONICA (ANDROMEDA)
Spring delivery.
Bed-grown, 2-yr.-old.
\$20.00 per 100, \$175.00 per 1000.
Minimum order 100 plants.
DESCANSO DISTRIBUTORS, INC.
12492 Pipeline Chino, Calif.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
1-yr. T, 2 to 3 ins. \$8.00 \$75.00
Seedlings, 1 to 2 ins. 6.00 50.00
PLANE VIEW NURSERY
West Main Rd. Newport, R. I.

PRIVET

Amur River North Privet, well-branched.
15 to 24 ins. \$3.00 per 100, \$25.00 per 1000
2 to 3 ft. 4.00 per 100, 30.00 per 1000
3 to 4 ft. 5.00 per 100, 40.00 per 1000
Mrs. R. L. Robinson, Greenville, Ga.

RHODODENDRONS

RHODODENDRONS
Lining-out stock for spring, 1957, delivery.
Hybrids, hardy varieties, 2-yr. grafts.
Reestablished plants, with ball,
Japanese beetle certified.

America, red
Caractacus, purplish crimson
Catawbiense album, white
Catawbiense grandiflorum, lilac
Charles Dickens, red
Dr. H. C. Dresselhuys, crimson
Edward S. Rand, red
English roseum, rose
Everestianum, rosy lilac
F. D. Godman, magenta-red
Ignatius Sargent, rosy crimson
Lee's Dark Purple, deep purple
Nova Zembla, red
Roseum elegans, rose-tinted lilac
Vanderbrooke, crimson
Vanweerden Poelman, crimson
\$130.00 per 100, \$600.00 per 500,
\$1100.00 per 1000.
J. BLAAUW & CO.
(Wholesale Nurseries)
Lincroft, N. J.
Mailing addr.: P. O. Box 573, Red Bank, N. J.
Phone: Dial SHadyside 7-2269.

RHODODENDRONS
AVOID LOSSES FROM RHODODEN-
DRON WILT BY PLANTING OWN-ROOT
PLANTS.
Strong cutting-grown liners, well estab-
lished in 3-in. pots. Japanese beetle certified.
America, red; Caractacus, crimson; Cata-
wbiense; Boursault, violet; album, white;
Charles Bagley, cherry-red; Ignatius Sar-
gent, deep rose-red; Kate Waterer, Persian-
rose; roseum superbum, pink.
25 per cent in red varieties, \$75.00 per 100.
All red varieties, \$90.00 per 100.
JAMES S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

GRAFTED HYBRID RHODODENDRONS
Dr. Dresselhuys, Dr. Rutgers, Prof. Bettex,
Dr. Lovink, Lee's Dk. Purple, roseum elegans.
Send for a list of other varieties. 9 to
12 ins., \$2.00; 12 to 15, \$3.00; 15 to 18,
\$3.75.
Azalea mollis, special strain, hand-pollin-
ated. Colored, red, yellow, pink. 12 to 15
ins., budded, \$1.25; unbudded, 85c.
Minimum order \$30.00. Cash with order.
Small sizes shipped express collect; large
sizes, truck pickup. Beetle zone.
WINDY HILL NURSERY
Wood St. Phone 32744 Saltsburg, Pa.

RHODODENDRONS
For immediate shipment. Unnamed hy-
brids of hardy ponticum-catawbiense parent-
age. Good foliage. For growing on or over
the counter sales, with firm lightweight ball,
twice transplanted, bed-grown, \$0.20 each.
50 plants per crate. Order by crate only.
Lightweight, expert frost-proofed crating
free. Cash with order.
RICHARD P. RESSEL NURSERY
Mullino, Ore.

RHODODENDRONS
Hybrids, red and pink; excellent stock.
15 to 18 ins., 18 to 24 ins., budded,
4 times transplanted.
SEE THEM
TORCH NURSERIES
32228 Glen Arden Dr. Willowick, O.

HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 8-8811

RHODODENDRON MAXIMUM
Nursery-grown and collected, 2 to 7 ft.
high. Well-shaped, symmetrical plants.
CURTIS NURSERIES, INC.
Calicoon, N. Y.

50,000 hybrid Rhododendron liners, cutting
grown, 50c up.
Kordus Nursery, Deer Park Ave., R. D. 4,
Box 152, Huntington, L. I., N. Y.

ROSEBUSHES

NO. 1 ROSEBUSHES
2-yr., western field-grown Rosebushes in
storage, ready for immediate shipment. Tied
in bundles of 10 and in prime condition.
100 Chrysler Imperial \$1.20 each
50 Midnight 1.37½ each
50 Bingo 1.25 each
100 Crimson Glory55 each
100 Ena Harkness55 each
100 Signora55 each
100 Golden Masterpiece 1.37½ each
100 Eclipse55 each
50 Helen Traubel 1.25 each
100 Picture55 each
100 Snowbird55 each
50 Montezuma 1.37½ each
100 Queen Elizabeth 1.25 each
100 Jimmy Cricket 1.00 each
100 Vogue 1.00 each
100 Moonprite 1.25 each
50 White Bouquet 1.25 each
250 Betty Prior80 each
100 Circus 1.25 each
50 Golden Showers 1.50 each

No. 1 bushes only.
Cash with order, or 25 per cent down and
balance C.O.D. We also have smaller amounts
in 10's or 20's of other varieties.
STANEK'S NURSERY
Spokane 33, Wash.

WESTERN-GROWN ROSEBUSHES
Harvest time has started now. Full assort-
ment of varieties and grades, also booking
orders for individually wrapped with colored
pictures for counter sales.
Write for descriptive price list with full
assortment of Rosebushes, shrubs, fruit trees
and vines.
HOME NURSERY GREENHOUSES, INC.
Lock Box 181 Edwardsville, Ill.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

SEEDS

EVERGREEN SEEDS
Norway Spruce, 75c; White Spruce, 85c;
Colorado Spruce, \$1.55; Austrian Pine, 75c;
Jap. Yew, 75c; Scotch Pine, \$1.00; Balsam
Fir, 90c; Am. Holly, \$1.00; White Pine, \$1.00.
All 1-oz. packages. Get free list for other
quantities and varieties.
MELLINGER'S, INC.
Box AN North Lima, O.

Tree and shrub seed for nurserymen Per lb.
Juniperus virginiana (Platt R. Cedar) \$4.50
virginiana (Kansas), clean seed 4.00
Rosa multifl., thorny (Neb.), clean seed 4.00
Native Colo. Juniperus virginiana (Platt
River Red Cedar), 6 to 12 ins., excellent, root-
ed from sand \$80.00 per 100.
Forestry Seed Service, Cuba, Kan.

SHRUBS AND TREES

SEEDLINGS, TRANSPLANTS
Per 100 Per 1000
Taxus capitata \$19.00 \$ 90.00
2-yr., 3 to 8 ins. 16.00 120.00
Austrian Pine 4.00 25.00
2-yr., 4 to 8 ins. 5.00 35.00
Scotch Pine 4.00 25.00
2-yr., 4 to 8 ins. 4.00 30.00
Mugho Pine 5.00 50.00
2-yr., 3 to 8 ins. 12.00 75.00
Ponderosa Pine 4.00 25.00
2-yr., 2 to 4 ins. 6.00 40.00
Engelmann Spruce 4.00 25.00
2-yr., 2 to 4 ins. 6.00 35.00
Norway Spruce 4.00 20.00
5000 or more graded, \$15.00 per 1000.
5000 or more run of beds, \$12.50 per 1000.
3-yr., 6 to 12 ins., T. 5.00 30.00
12 to 18 ins., T. 25.00 200.00
Juniperus chinensis 6.00 40.00
2-yr., 4 to 8 ins. 6.00 40.00
American Thuja 6.00 40.00
3-yr., 4 to 8 ins. 8.00 40.00
Canada Hemlock 8.00 40.00
2-yr., 4 to 8 ins. 8.00 40.00
3-yr., 8 to 12 ins. 12.00 100.00
Larch, decidua 4.00 30.00
2-yr., 8 to 12 ins. 12.00 100.00
3-yr., T, 12 to 18 ins. 6.00 40.00
Mountain Ash 8.00 50.00
1-yr., 8 to 12 ins. 25.00
1-yr., 12 to 18 ins. 35.00
2-yr., 2 to 3 ft. 50.00
2-yr., 3 to 4 ft. 60.00
Regels Privet, seedlings 8.00 60.00
1-yr., 12 to 18 ins. 10.00
2-yr., 12 to 24 ins. 10.00
Complete catalog on request.
HEASLEY'S NURSERIES
247 Freepost Rd. Butler, Pa.

2-yr., western field-grown Rosebushes in
storage, ready for immediate shipment. Tied
in bundles of 10 and in prime condition.
100 Chrysler Imperial \$1.20 each
50 Midnight 1.37½ each
50 Bingo 1.25 each
100 Crimson Glory55 each
100 Ena Harkness55 each
100 Signora55 each
100 Golden Masterpiece 1.37½ each
100 Eclipse55 each
50 Helen Traubel 1.25 each
100 Picture55 each
100 Snowbird55 each
50 Montezuma 1.37½ each
100 Queen Elizabeth 1.25 each
100 Jimmy Cricket 1.00 each
100 Vogue 1.00 each
100 Moonprite 1.25 each
50 White Bouquet 1.25 each
250 Betty Prior80 each
100 Circus 1.25 each
50 Golden Showers 1.50 each

No. 1 bushes only.
Cash with order, or 25 per cent down and
balance C.O.D. We also have smaller amounts
in 10's or 20's of other varieties.
STANEK'S NURSERY
Spokane 33, Wash.

WESTERN-GROWN ROSEBUSHES
Harvest time has started now. Full assort-
ment of varieties and grades, also booking
orders for individually wrapped with colored
pictures for counter sales.
Write for descriptive price list with full
assortment of Rosebushes, shrubs, fruit trees
and vines.
HOME NURSERY GREENHOUSES, INC.
Lock Box 181 Edwardsville, Ill.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

EVERGREEN SEEDS
Norway Spruce, 75c; White Spruce, 85c;
Colorado Spruce, \$1.55; Austrian Pine, 75c;
Jap. Yew, 75c; Scotch Pine, \$1.00; Balsam
Fir, 90c; Am. Holly, \$1.00; White Pine, \$1.00.
All 1-oz. packages. Get free list for other
quantities and varieties.
MELLINGER'S, INC.
Box AN North Lima, O.

Tree and shrub seed for nurserymen Per lb.
Juniperus virginiana (Platt R. Cedar) \$4.50
virginiana (Kansas), clean seed 4.00
Rosa multifl., thorny (Neb.), clean seed 4.00
Native Colo. Juniperus virginiana (Platt
River Red Cedar), 6 to 12 ins., excellent, root-
ed from sand \$80.00 per 100.
Forestry Seed Service, Cuba, Kan.

SEEDLINGS, TRANSPLANTS
Per 100 Per 1000
Taxus capitata \$19.00 \$ 90.00
2-yr., 3 to 8 ins. 16.00 120.00
Austrian Pine 4.00 25.00
2-yr., 4 to 8 ins. 5.00 35.00
Scotch Pine 4.00 25.00
2-yr., 4 to 8 ins. 4.00 30.00
Mugho Pine 5.00 50.00
2-yr., 3 to 8 ins. 12.00 75.00
Ponderosa Pine 4.00 25.00
2-yr., 2 to 4 ins. 6.00 40.00
Engelmann Spruce 4.00 25.00
2-yr., 2 to 4 ins. 6.00 35.00
Norway Spruce 4.00 20.00
5000 or more graded, \$15.00 per 1000.
5000 or more run of beds, \$12.50 per 1000.
3-yr., 6 to 12 ins., T. 5.00 30.00
12 to 18 ins., T. 25.00 200.00
Juniperus chinensis 6.00 40.00
2-yr., 4 to 8 ins. 6.00 40.00
American Thuja 6.00 40.00
3-yr., 4 to 8 ins. 8.00 40.00
Canada Hemlock 8.00 40.00
2-yr., 4 to 8 ins. 8.00 40.00
3-yr., 8 to 12 ins. 12.00 100.00
Larch, decidua 4.00 30.00
2-yr., 8 to 12 ins. 12.00 100.00
3-yr., T, 12 to 18 ins. 6.00 40.00
Mountain Ash 8.00 50.00
1-yr., 8 to 12 ins. 25.00
1-yr., 12 to 18 ins. 35.00
2-yr., 2 to 3 ft. 50.00
2-yr., 3 to 4 ft. 60.00
Regels Privet, seedlings 8.00 60.00
1-yr., 12 to 18 ins. 10.00
2-yr., 12 to 24 ins. 10.00
Complete catalog on request.
HEASLEY'S NURSERIES
247 Freepost Rd. Butler, Pa.

2-yr., western field-grown Rosebushes in
storage, ready for immediate shipment. Tied
in bundles of 10 and in prime condition.
100 Chrysler Imperial \$1.20 each
50 Midnight 1.37½ each
50 Bingo 1.25 each
100 Crimson Glory55 each
100 Ena Harkness55 each
100 Signora55 each
100 Golden Masterpiece 1.37½ each
100 Eclipse55 each
50 Helen Traubel 1.25 each
100 Picture55 each
100 Snowbird55 each
50 Montezuma 1.37½ each
100 Queen Elizabeth 1.25 each
100 Jimmy Cricket 1.00 each
100 Vogue 1.00 each
100 Moonprite 1.25 each
50 White Bouquet 1.25 each
250 Betty Prior80 each
100 Circus 1.25 each
50 Golden Showers 1.50 each

No. 1 bushes only.
Cash with order, or 25 per cent down and
balance C.O.D. We also have smaller amounts
in 10's or 20's of other varieties.
STANEK'S NURSERY
Spokane 33, Wash.

WESTERN-GROWN ROSEBUSHES
Harvest time has started now. Full assort-
ment of varieties and grades, also booking
orders for individually wrapped with colored
pictures for counter sales.
Write for descriptive price list with full
assortment of Rosebushes, shrubs, fruit trees
and vines.
HOME NURSERY GREENHOUSES, INC.
Lock Box 181 Edwardsville, Ill.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

EVERGREEN SEEDS
Norway Spruce, 75c; White Spruce, 85c;
Colorado Spruce, \$1.55; Austrian Pine, 75c;
Jap. Yew, 75c; Scotch Pine, \$1.00; Balsam
Fir, 90c; Am. Holly, \$1.00; White Pine, \$1.00.
All 1-oz. packages. Get free list for other
quantities and varieties.
MELLINGER'S, INC.
Box AN North Lima, O.

Tree and shrub seed for nurserymen Per lb.
Juniperus virginiana (Platt R. Cedar) \$4.50
virginiana (Kansas), clean seed 4.00
Rosa multifl., thorny (Neb.), clean seed 4.00
Native Colo. Juniperus virginiana (Platt
River Red Cedar), 6 to 12 ins., excellent, root-
ed from sand \$80.00 per 100.
Forestry Seed Service, Cuba, Kan.

POTTED GRAFTS, 1-YR.

Per 100
Acer palmatum atropurpureum \$75.00
Acer palmatum atropurp. dissectum 75.00
Fagus sylvatica riveral 75.00
ROOTED CUTTINGS, 1-YR. BEDDED

Per 100 Per 1000
Buxus sempervirens, 4 to 6 ins. \$10.00 \$ 90.00
Ilex bullata, 4 to 6 ins. 10.00 90.00
Ilex crenata, 5 to 8 ins. 10.00 90.00
Juniper, hibernica, 5 to 8 ins. 10.00
Juniper, Pfitzer, 4 to 6 ins. 12.00 100.00
Ilex glabra, 4 to 6 ins. 10.00
Magnolia soulangeana, 2-yr. cuttings,
in pots, 18 to 24 ins., branched 75.00
soulangeana nigra, 2-yr. cuttings,
in pots, 18 to 24 ins., br. 75.00
Pachysandras 4.00 35.00
Retinospora plumosa aurea,
5 to 8 ins. 10.00 90.00
Retinospora plumosa, 6 to 8 ins. 10.00 90.00
Taxus brevifolia, 4 to 6 ins. 10.00 90.00
Taxus capitata, tips, 6 to 8 ins. 15.00
Taxus compacta, 4 to 6 ins. 15.00 125.00
Taxus cuspidata, 4 to 6 ins. 10.00 90.00
Taxus ovata, 4 to 6 ins. 15.00 125.00
Thuja globosa, 5 to 8 ins. 10.00 90.00
Thuja vancouveriana, 5 to 8 ins. 10.00

1-YR. SEEDLINGS
Per 100 Per 1000
Cornus florida \$5.00 \$40.00
Taxus capitata 5.00 40.00
Taxus capitata, transplants 5.00 50.00

2-YR. SEEDLINGS
Per 100 Per 1000
Azalea mollis, 2-yr. transp. \$15.00
Balsam Fir, 3 to 5 ins. 4.00 \$35.00
Picea excelsa, 4 to 6 ins. 3.50 25.00
Picea pungens glauca, 3 to 5 ins. 4.00 35.00
Picea (White Spruce), 4 to 6 ins. 3.50 25.00
Pinus strobus, 4 to 6 ins. 3.50 25.00
Pinus sylvestris, 4 to 6 ins. 3.50 25.00
Thuja occidentalis, 4 to 6 ins. 4.00 40.00
Thuja orientalis, 4 to 8 ins. 3.50 30.00
Tsuga canadensis, 3 to 4 ins. 6.00 50.00
Taxus capitata, 4 to 6 ins. 7.00 60.00

In large quantity, special price.
Ilex crenata, 4 to 6 ins. 5.00 40.00
3-YR. SEEDLINGS, TRANSPLANTED
Per 100 Per 1000
Taxus capitata, 4 to 8 ins. \$12.00 \$100.00
Tsuga canadensis, 4 to 7 ins. 8.00 70.00
Douglas Fir, 5 to 8 ins. 6.00 50.00
Euonymus alatus, 5 to 8 ins. 6.00 45.00

AZALEAS, 3-YR. TRANSPLANTS
Per 100
Hinodegiri \$40.00
4-YR. TRANSPLANTS
Per 100 Per 1000
Picea (White Spruce),
6 to 8 ins. \$6.00 \$50.00
Picea rubens, 6 to 8 ins. 12.00
Tsuga canadensis, 5 to 8 ins. 10.00 95.00
Tsuga canadensis, 8 to 10 ins. 15.00 140.00
Tsuga caroliniana, 4 to 8 ins. 10.00
Thuja occidentalis, 6 to 10 ins. 10.00 90.00

ROOTED CUTTINGS TRANSPLANTED
IN FLATS
Per 100 Per 1000
Azalea Hino-Crimson \$12.00 \$100.00
Azalea Hinoegiri 12.00 100.00
Euonymus japonicus 12.00 100.00
Pieris japonica 12.00 100.00

POTTED GRAFTS FOR MAY DELIVERY
Per 100
Acer palmatum atropurpureum \$65.00
Acer palmatum atropurpureum
dissectum 65.00
Fagus sylvatica asplenifolia 65.00
Fagus sylvatica fastigiata 65.00
Fagus sylvatica riveral 65.00
Picea pungens moerheimi 100.00
Picea pungens kosteriana 100.00
Pine, Tanyosho 50.00
Tsuga canadensis, angled 50.00

VAN DINE NURSERY
Berdan Ave. Preakness, Paterson, N. J.

2-YEAR FIELD-GROWN SHRUBS Each
Hydrangea P. G., 3 to 4 ft. 30c
Hydrangea P. G., 2 to 3 ft. 30c
Hydrangea P. G., 12 to 18 ins. 20c
Euonymus alatus compactus, 9 to 12 ins.,
branched 40c
Euonymus alatus compactus, 12 to 15 ins.,
branched 60c
Cydonia japonica, common; 12 to 18 ins. 18c
Spiraea Anthony Waterer, 12 to 15 ins. 25c
Viburnum tomentosum, 18 to 24 ins. 25c
Weigela Eva Rathke, 12 to 18 ins. 16c
Weigela vaniceki, 12 to 18 ins. 18c
Philadelphus virginialis, 18 to 24 ins. 30c

List of other varieties on request.
CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

SHRUBS AND SPECIMENS
Each, 100 1000
Cotoneaster divaricata \$0.75
18 to 24 ins. \$0.75
Philadelphus virginialis, 2 to 3 ft. 45 \$0.40
Philadelphus virginialis, 3 to 4 ft. 60 .55
Weigela vaniceki, 2 to 3 ft. 55 .50
Weigela rosea, 2 to 3 ft. 45 .40

GERARD K. KLYN, INC. MENTOR, O.
Wholesale Rose Growers and Nurserymen.

LILAC LINERS
Nursery-grown Per 100 Per 1000
17,000 common purple, \$6.00 \$50.00
32,000 common purple, 2 to 3 ft. 8.00 70.00
5,000 common white, 2 to 3 ft. 8.00 70.00
18 to 24 ins. 6.00 50.00
5,000 common white, 2 to 3 ft. 8.00 70.00

PARKER'S PEONY FARM
High-Bridge St. Fayetteville, N. Y.

SHRUBS AND SPECIMENS
Each, 100 1000
Cotoneaster divaricata \$0.75
18 to 24 ins. \$0.75
Philadelphus virginialis, 2 to 3 ft. 45 \$0.40
Philadelphus virginialis, 3 to 4 ft. 60 .55
Weigela vaniceki, 2 to 3 ft. 55 .50
Weigela rosea, 2 to 3 ft. 45 .40

GERARD K. KLYN, INC. MENTOR, O.
Wholesale Rose Growers and Nurserymen.

LILAC LINERS
Nursery-grown Per 100 Per 1000
17,000 common purple, \$6.00 \$50.00
32,000 common purple, 2 to 3 ft. 8.00 70.00
5,000 common white, 2 to 3 ft. 8.00 70.00
18 to 24 ins. 6.00 50.00
5,000 common white, 2 to 3 ft. 8.00 70.00

PARKER'S PEONY FARM
High-Bridge St. Fayetteville, N. Y.

SHRUBS AND SPECIMENS
Each, 100 1000
Cotoneaster divaricata \$0.75
18 to 24 ins. \$0.75
Philadelphus virginialis, 2 to 3 ft. 45 \$0.40
Philadelphus virginialis, 3 to 4 ft. 60 .55
Weigela vaniceki, 2 to 3 ft. 55 .50
Weigela rosea, 2 to 3 ft. 45 .40

GERARD K. KLYN, INC. MENTOR, O.
Wholesale Rose Growers and Nurserymen.

LILAC LINERS
Nursery-grown Per 100 Per 1000
17,000 common purple, \$6.00 \$50.00
32,000 common purple, 2 to 3 ft. 8.00 70.00
5,000 common white, 2 to 3 ft. 8.00 70.00
18 to 24 ins. 6.00 50.00
5,000 common white, 2 to 3 ft. 8.00 70.00

PARKER'S PEONY FARM
High-Bridge St. Fayetteville, N. Y.

SHRUBS AND SPECIMENS
Each, 100 1000
Cotoneaster divaricata \$0.75
18 to 24 ins. \$0.75
Philadelphus virginialis, 2 to 3 ft. 45 \$0.40
Philadelphus virginialis, 3 to 4 ft. 60 .55
Weigela vaniceki, 2 to 3 ft. 55 .50
Weigela rosea, 2 to 3 ft. 45 .40

GERARD K. KLYN, INC. MENTOR, O.
Wholesale Rose Growers and Nurserymen.

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed, with good heredity and scientific culture, assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production. Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on page 32 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS

Box 16-DC Indiana, Pa.

LANDSCAPE MATERIAL, B&B AND F.O.H.

FAGUS SYLVATICA

75 2 to 3-in., 12 to 16 ft. tall.....\$30.00

WHITE PINE

100 10 to 12 ft. 30.00

100 12 to 14 ft. 40.00

100 14 to 16 ft. 50.00

THUJA NIGRA

200 12 to 15 ft. 25.00

230 2 to 2 1/2 ft. 1.50

250 2 1/2 to 3 ft. 2.00

60 3 to 3 1/2 ft. 2.25

THE PETER CASCIO NURSERY

2600 Albany Ave. West Hartford 7, Conn.

Beautiful ornamental trees and flowering shrubs, class A: Flowering Crabs, a brilliant show; red, white and pink; 3 to 4 ft., \$15.00 per 100, \$150.00 per 1000. Fragrant French Lilacs, double-flowering; pink, blue, white and red; blooming size, \$18.00 per 10, \$180.00 per 100. Abelia grandiflora, white-flowering, 2 to 3 ft., \$7.50 per 10, \$75.00 per 100; pink-flowering, 18 to 24 in., \$9.50 per 10, \$95.00 per 100. Pyracantha formosana, clusters of bright red berries; 12 to 18 in., \$2.50 per 10, \$25.00 per 100.

Mrs. R. L. Robinson, Greenville, Ga.

NATIVE TREES

Selected Sugar and Pin Oak, 4-in. seedlings to 4-in. caliper; Ash, 3 ft. to 4-in. caliper; Red (Rubrum) Maples, 4-in. seedlings to 2 1/2-in. caliper; Chinese Elm, 3 to 10 ft.; Tulip Poplar, 8 to 10 ft.; B&B, nursery-grown Euonymus, radicans erectus and coloratus, also Myrtle.

Price list on request.

VAUGHAN'S NURSERY AND GREENHOUSE CO.

15910 Cleveland Rd. Granger, Ind.

PINK-FLOWERING DOGWOOD

150 4 to 5 ft., heavy branched, \$5.00 each, row-run.

Add 50c per plant for B&B.

MAGNOLIA SCULANCEANA

150 4 to 5 ft., heavy branched, \$4.50 each, row-run.

Add 50c per plant for B&B.

CUZZ-ACRES NURSERY

205 Indian River Rd. Orange, Conn.

Phone Sy 9-2267

FLOWERING CRABS

40 varieties, best of the old and newer varieties, 1-yr. white and branched. Also 2-yr., once transplanted, 6 to 8 ft. Descriptive booklet available.

THUNDERCLOUD PURPLE-LEAVED PLUM

1-yr., well-branched, sizes to 6 ft. and over.

SIMPSON ORCHARD CO.

U. S. 50 E. Vincennes, Ind.

We are offering the following good, strong plants in 1-gal. containers at 50c.

Pfitzer Juniper Waxleaf
Andorra Juniper Pyracantha, red
Hetz Juniper Pyracantha, orange
Boxwood Burford Holly
Euonymus japonicus Mahonia
Euonymus patens Photinia
J. C. Carden Nursery, 3405 North Albert Pike, Fort Smith, Ark.

SHADE TREES

Chinese Elm, up to 4-in. caliper; Silver Maple, up to 2 1/2-in. caliper; American, European and Weeping Birch. Other kinds in smaller sizes.

Evergreens, B&B; Arborvitae, Junipers and Pines. Some large sizes.

Also Gladioli, Dahlias and hardy Mums.

NACOS NURSERY

Dacatur, Mich.

HIBISCUS (MALLOW)

Henderson variety, huge blooms: 6 to 10 in. hardy, 2-yr. roots, 10, \$3.00; 100, \$30.00.

BIRD-OF-PARADISE (Poinciana gilliesii)

15 to 20 in., \$3.00 per 10, \$30.00 per 100;

24 to 36 in., \$4.00 per 10, \$30.00 per 100.

Limited quantity, 2 and 3-yr.-old, 48 in. and over, 50c each.

BEST NURSERY, CLEVELAND, MISS.

CUT-LEAVED WEEPING BIRCH

6 to 8 ft., \$3.00 per 10, \$27.50 per 100.

8 to 10 ft., \$4.00 per 10, \$35.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Va.

SHRUBS

See our display ad, March 1, American Nurseryman.

WAYNESBORO NURSERIES, INC.

Waynesboro, Va.

SHRUBS AND TREES

1000 Rhododendron hybrids, 2-yr., transplants; 75 per cent red, grafted, \$1.25 each.

1000 Taxus hatfieldi, 12 to 15 in., bushy.

1000 Taxus hatfieldi, 15 to 18 in., bushy.

Several thousand liners. Ask for prices.

MARINUS VANDER POL, NURSERYMAN

Fairhaven, Mass.

PIN OAK SEEDLINGS

(Quercus palustris)

3 to 6 in., \$5.00 per 100, \$40.00 per 1000

6 to 9 in., 7.00 per 100, 60.00 per 1000

9 to 12 in., 9.00 per 100, 80.00 per 1000

12 to 18 in., 11.00 per 100, 100.00 per 1000

LEAVENWORTH NURSERIES

Route 3 Leavenworth, Kan.

SURPLUS!

SPECIMEN AM. SYCAMORE TREES

(Platanus occidentalis)

300 trees, 1 1/2-in. \$ 6.50 each

300 trees, 2-in. 10.00 each

100 trees, 2 1/2-in. 12.50 each

Fibrous root system, well-branched tops.

WALTER ELSNER LANDSCAPE CO.

10214 S. Bell Ave. Chicago 43, Ill.

WHITE OAK (Quercus alba)

Seedlings, 3-yr., heavy.

9 to 12 in., \$9.00 per 100; 12 to 18 in., \$11.00 per 100; 18 to 24 in., \$15.00 per 100;

2 to 3 ft., \$22.00 per 100; 3 to 4 ft., \$30.00 per 100.

HAGGERTY NURSERY

2600 S. 48th Lincoln, Neb.

EUROPEAN WHITE BIRCH

5 to 6 ft., \$15.00 per 10, \$125.00 per 100.

6 to 8 ft., \$22.50 per 10, \$200.00 per 100.

Ask for quotations on other shade trees.

WAYNESBORO NURSERIES

Waynesboro, Va.

SHRUBS AND TREES

See our Classified ad in this issue under

LINING-OUT STOCK.

T. G. OWEN & SONS, INC.

Columbus, Miss.

Save money, be assured of delivery. Contract growing, Douglas Fir, Norway Spruce,

Cornus nuttallii, Pyracantha, Sequoia, Cytisus scoparius, others. Write requirements.

Fulton Smith, 47 Evans St., Sheridan, Ore.

Northern-grown stock: Mugho, White and Red Pine; Black Hills, White and Colo.

Spruce; Virg. and Scop. Juniper, B&B. Also Mt. Ash, White Birch, etc. Send for list.

Pequot Nurseries, Brainerd, Minn.

TAXUS

2-yr.-old liners, transplanted, field-grown.

Certified nursery stock.

Ship beetle zone, outside beetle zone.

Hatfieldi

Cuspidata capitata, rooted from leaders

Cuspidata, spreading

Mooni, upright

Hicksi

Free packing.

\$40.00 per 100, \$350.00 per 1000.

LARRY'S NURSERIES, INC.

960 Reservoir Ave. Cranston, R. I.

TAXUS CUSPIDATA CAPITATA

Grown from Jap. seed.

1-yr. seedlings, \$40.00 per 1000.

2-yr. seedlings, \$75.00 per 1000.

\$65.00 per 1000, 10,000 up.

3-yr. transplanted seedlings,

\$15.00 per 100, \$120.00 per 1000.

Rooted Taxus cuttings and 1-yr. bedded,

in all leading varieties.

Ask for special quantity price.

NURSERY SALES, INC.

P. O. Box 295

525 Stevens Ave. Ridgewood, N. J.

TAXUS CAPITATA

Strong 2-yr. seedlings, seeds sown lightly,

plants grown with plenty of room in beds.

\$15.00 per 100, \$125.00 per 1000.

C. HOOGENDOORN NURSERIES

Newport, R. I.

TRITOMAS

TRITOMA PFITZERI (RED-HOT POKER)

No seedlings. True fall blooming. The

exclamation point of the garden.

100 strong plants, \$15.00; 250 strong plants,

\$30.00; 1000 strong plants, \$100.00. Larger

quantities, ask for price.

JOHN M. ELZINGA

P. O. Box 143 Benton Harbor, Mich.

VINCAS

VINCA MINOR, SEEDS AND RUNNERS

Seeds, 110, \$1.00.

Runners

Blue \$4.00 \$7.00

Seedlings 4.50 8.00

Bowles 5.00 9.00

GOLDEN ACRES NURSERY (A)

Shippahwana, Ind.

HARDY MYRTLE (Vinca minor)

Medium liners, \$10.00 per 1000.

Large liners, 3 to 5 leads, \$25.00 per 1000.

Medium clumps, 3 to 10 leads, \$35.00 per 1000.

BART'S NURSERY, FULLERTON, PA.

HARDY VINCA MINOR

Strong plants from field clumps, excellent foliage and roots, first-class stock, 10 to 15 stems, \$3.50 per 100, prepaid; \$50.00 per 1000 or more, \$75.00. P.O.B. here. Prompt shipment.

PEEKSKILL NURSERIES, Shrub Oak, N. Y.

Hardy Myrtle (Vinca minor), plants with

20 leads or more and good roots, \$5.00 per

100, \$45.00 per 1000. Cash. Samuel I. Minder,

305 Euclid Ave., Lancaster, Pa.

VEGETABLE PLANTS

OUTDOOR-GROWN PLANTS

WRITE FOR COMPLETE WHOLESALE LIST

OF POPULAR VARIETIES

State inspected, carefully moss-packed.

Cabbage, popular varieties \$3.95 per 2000

RED ACRE Cabbage 3.00 per 1000

Onions, popular varieties 3.95 per 5000

HYBRID Onions, Yel. Spanish, 6.50 per 6000

Tomatoes, popular varieties 3.00 per 1000

HYBRID Tomatoes 4.75 per 1000

Peppers, hot 4.50 per 1000

Peppers, sweet 3.50 per 1000

Sweet Potato Porto Rico 4.35 per 1000

Sweet Potato Red Velvet 5.00 per 1000

BUNCH Porto Rico Sw. Potato 8.00 per 1000

Packed 1000 to a new basket; tops up;

roots down, on damp moss. Shipped by

express.

All guaranteed, fresh pulled, true to name.

FARRIER PLANT CO., E. B. BROWN

Box 555, Morris Co., Omaha, Texas.

1957 WHOLESALE PRICE LIST

VEGETABLE PLANTS

Plant variety Date ready Per 1000

Cabbage Now \$2.00

Collard Now 2.00

Onion Now 1.50

Lettuce Now 4.00

Broccoli Now 4.00

Cauliflower Now 4.00

Pepper Apr. 15 4.50

Eggplant Apr. 15 4.50

Tomato Apr. 15 3.75

Hybrid Tomato Apr. 15 5.00

Sweet Potato Apr. 15 7.00

All above prices f.o.b. Albany. Leading var-

ieties. Write for catalog. Large, fresh plants.

Prompt shipment. Write or wire.

PIEDMONT PLANT CO.

Dept. 905 Albany, Ga.

MISCELLANEOUS

WALNUTS, GRAFTED

Thomas, Early Thomas, Mintie, Edras,

Stabler, Ogden and Champion, 3 to 4 ft.,

\$1.50; 4 to 5 ft., \$1.85; 5 to 6 ft., \$2.10; 6 to

7 ft., \$2.35. Discount for lots of 10 of one

variety and size, 10 per cent; 25, 25 per cent;

50, 35 per cent; 100, 40 per cent.

CHERRIES, BUDDED

Montmorency (improved strain) and Early

Richmond, 11/16 to 1-in. caliper, good height,

95c; 9/16 to 1 1/16-in., 80c.

GRAPES

Concord, 1-yr. size, No. 1, \$7.50 per 100.

\$65.00 per 1000; 2-yr. size, No. 1, \$8.50 per

100, \$75.00 per 1000.

Fredonia and Niagara, 1-yr. size, No. 1,

\$9.50 per 100, \$85.00 per 1000; 2-yr. size, No.

1, \$11.50 per 100, \$100.00 per 1000.

Caco and Delaware, 1-yr. size, No. 1, \$12.00

per 100, \$110.00 per 1000; 2-yr. size, No. 1,

\$13.00 per 100, \$120.00 per 1000.

MARTHA WASHINGTON ASPARAGUS

1-yr., \$2.00 per 100; 2-yr., \$3.00 per 100.

HEDGES, WELL BRANCHED

California Privet, 2 to 3 ft., \$8.00 per 100.

Amur River South, 2 to 3 ft., \$8.00 per 100.

Amur River

SUPPLIES AND SUNDRIES

FERTILIZERS

PETERS SPECIAL SOLUBLE FERTILIZERS
20-20-20, the best general purpose feed
21-7-7 Azalea Acid (for hard-water sections)
21-7-7 Azalea Neutral (for normal water)
All above, \$6.50 per 25-lb. bag.
\$22.00 for 4 25-lb. bags.
PETERS SPECIAL UREAFORM FERTILIZERS (NON-SOLUBLE)
13-6-6 Organic Special, Ureaform Nitrogen and natural organics. A pot-plant special dry feed, Non-soluble.
\$7.50 per 25-lb. bag.
\$25.00 for 4 25-lb. bags.
Du Pont Uramite, 38 per cent nitrogen from ureaformaldehyde.
(\$12.00 per 50-lb. bag.)
All above material is F.O.B. Allentown.
ROBERT B. PETERS CO.
737 N. 7th St. Allentown, Pa.

FLATS

MINNESOTA WHITE CEDAR FLATS
Order by No. Wt. Price
No. 1, 14x20x2 1/2 320 \$25.00
No. 2, 14x20x3 400 29.00
No. 3, 12x16x2 1/2 260 19.00
No. 4, 12x16x3 275 22.50
No. 5, 14x16x2 1/2 275 21.50
No. 6, 14x16x3 290 25.50
No. 7, 15x22x2 1/2 380 28.50
No. 8, 15x22x3 425 33.00
No. 9, 11 1/2 x22x2 1/2 320 23.00
No. 10, 11 1/2 x22x3 400 26.75
No. 11, 14x16x5 450 30.00
No. 12, 5x11x5 160 16.00
No. 13, 5x16x5 215 18.50
Plant boxes, 5x8 1/2 x2 1/2 45 5.00
All other prices quoted on request.
5 per cent discount on order of 1000 or more.
The above measurements are inside. Bottoms and sides of cedar flats are 3/4-in. thick; ends are 1/2-in. Plant boxes are thinner.
All material surfaced on one side.
Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, \$1.00, plus 5¢ per piece for the first 1600 ends, 1/2¢ per end thereafter. Shipped knocked-down in units of 25.
All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.
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MIXED SOUTHERN HARDWOOD FLATS
Includes Gum, Cottonwood, Maple, Willow and other soft hardwoods.
Per 100
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No. 2, 14x20x3 29.00
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No. 4, 12x16x3 22.50
No. 5, 14x16x2 1/2 21.50
No. 6, 14x16x3 25.50
No. 7, 15x22x2 1/2 28.50
No. 8, 15x22x3 33.00
No. 9, 11 1/2 x22x2 1/2 23.00
No. 10, 11 1/2 x22x3 26.75
No. 11, 14x16x4 1/2 29.50
No. 12, 5x11x5 16.00
No. 13, 5x16x5 18.50
Ends are 13/16" sides and bottom are 1/2" reawen lumber, surfaced one side. Can ship by commercial truck lines or LCL freight from Karnak, Ill.
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Incorporated 1902 Karnak, Ill.

REDWOOD FLATS, K. D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$38.00 per 100.
1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bd.
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Ship same day. Cash with order, please.
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Priced per 1000
Plain Painted
3 1/2 x 5 ins., notched (not wired) \$2.50
3 1/2 x 5 ins., wired (copper) 3.30
POT LABELS
4x 1/2 ins. (cartons 1000 each) 3.30
5x 1/2 ins. (cartons 1000 each) 3.60
6x 1/2 ins. (cartons 1000 each) 3.90
8x 1/2 ins. (cartons 500 each) 6.00
10x 1/2 ins. (cartons 500 each) 7.00
GARDEN STAKES
Priced per carton.
3x 1/2 ins. (cartons 250 each) 2.50
10x 1/2 ins. (cartons 250 each) 2.75
12x 1/2 ins. (cartons 100 each) 1.75
EVERMARK PENCILS
The original label marker. 1 doz. 7-in. pencils per box, \$1.25.
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Per 1000
Plain Painted
4x 1/2 ins. (1000 per carton) \$2.75
5x 1/2 ins. (1000 per carton) 3.00
6x 1/2 ins. (1000 per carton) 3.25
8x 1/2 ins. (500 per carton) 4.90
10x 1/2 ins. (500 per carton) 5.90
12x 1/2 ins. (500 per carton) 6.90
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3 1/2 x 5 ins. (wired, copper) 3.30
We will cut to your specifications.
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SHREDDED WAX PAPER, protect your blooms and plants when packing and shipping. Lb., 65¢; 10 lbs., \$5.50.
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HOLLAND PEAT MOSS
"BRODLEAF" quality. Just arrived.
Standard burlapped bales.
\$3.65 each; 10, \$34.25.
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PLANT AND TREE BOXES
Re-usable.
Made of sturdy 1/2-in. plywood with 14-gauge, galvanized wire binding. Lays flat when not in use. Easy to assemble.
Sizes Each
12x12x12 ins. \$2.00
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14x14x20 ins. 3.00
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2 mil. in 200 ft. rolls, 36 ins. wide, \$6.48;
54 ins. wide, \$9.55; 108 ins. wide, \$18.85;
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54 ins. wide, \$9.91; 108 ins. wide, \$22.05.
5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.
Information on Sisalglaze Polyflex available.
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Michigan White Cedar posts, 7 to 10 ft. long, 2 to 5 ins. top diameter. Untreated or pressure treated. Specify size and amount.
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Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
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BAMBOO STAKES. DOMESTIC DIRECT FROM THE PRODUCER
PENCIL THICKNESS Per 1000
1 1/2 ft., green \$3.60
2 ft., green 4.80
3 ft., green 7.20
MEDIUM HEAVY, 3/4 to 1 1/2-in. 500 1000
1 1/2 ft., green or natural \$ 2.85 \$ 5.70
2 ft., green or natural 3.80 7.60
3 ft., green or natural 4.75 9.50
3 1/2 ft., green or natural 5.70 11.40
4 ft., green or natural 6.65 13.30
4 1/2 ft., green or natural 7.60 15.20
5 ft., green or natural 8.50 17.00
6 ft., green or natural 11.40 22.80
7 ft., green or natural 13.30 26.60
HEAVY Per 100 1/2 3/4 1 1/2 1 3/4
4 ft., green or natural \$2.85 \$3.44 \$ 4.24
5 ft., green or natural 3.60 4.30 5.30
6 ft., green or natural 4.32 5.16 6.36
7 ft., green or natural 5.04 6.02 7.42
8 ft., green or natural 5.76 6.88 8.48
9 ft., green or natural 6.48 7.74 9.54
10 ft., green or natural 7.20 8.64 10.60
12 ft., green or natural 8.64 10.32 12.72
Approx. average thickness at bottom end.
A. C. PATTERSON, CENTERTOWN, KY.

NBS NURSERY BAMBOO STAKES
These imported stakes are especially selected for nursery use. All the bottom or butt cuts for minimum taper, cut closely to a joint to reduce splitting. These are of the finest quality available.
Per bale
4 ft., 1/2 to 3/4-in. dia., 500 per bale \$22.50
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Less these generous quantity discounts: 5 bales up, less 10 per cent; 10 bales up, less 15 per cent; 25 bales up, less 20 per cent.
Bale lots only.
F.O.B. New York. Immediate shipment.
Pencil thick bamboo stakes also available. Write for prices.
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CYPRESS PLANT STAKES
50 pieces to bundle.
1x1-in.-3 ft., pointed \$3.00 per bundle
1x1-in.-4 ft., pointed 3.50 per bundle
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These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."
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Hold your sod on the inclines.
Sample mailed on request.
12 ins. long, 1/2-in. thick;
1 1/2-in. top, down to point.
In bags of 500
Weight, 100 lbs. to 1000 pieces.
\$5.25 per 1000, F.O.B.
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 3/4x39 in., straight, long-lasting culls.
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 Plain 4.00 per 100
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GALVANIZED tree guying WIRE.
HOSE for guy wire PADDING.
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LATH

F. A. McKENZIE MFG. CO.
 Avinger, Tex.

NEW ENGLAND SHOW

[Continued from page 49]

On the other side of the circle Alexander I. Heimlich, Woburn, had a rock garden, in which was a colorful alpine wall. A path marked the middle and lost itself in a birch and azalea forest. This garden glowed with hundreds of blooms. First prize and a gold medal were won by the display.

The stage and feature display of Grand hall was built around an ancient gazabo and fountainhead, giving a formal effect in the Italian style. The scene featured azaleas of John S. Ames. Formal clipped hedges created a background. Mr. Ames, North Easton, was awarded the president's cup for the most meritorious exhibit in the show. The display was designed by Harold Stevenson, Rockland. A second honor conferred upon this exhibit was the presentation of the gold medal of the Horticultural Society of New York, for the most beautiful exhibit in the show.

Woodland Setting

In the basement hall was found the largest exhibit in the show, winner of a first prize and a gold medal. The display was called "Chapel in the Woods" and was done by Bartlett Gardens, Hamilton. It was a naturalistic woodland setting with New England wild flowers (all nursery grown) and a little woodland pond. Organ music was heard in the chapel from time to time.

The National Association of Gardeners was given second prize for a semiformal garden design. Third prize was awarded to the Northern Virginia Florists' Association for a semiformal garden that featured a marble statue at the rear of a grass mall, backed by a retaining wall of black brick. The top of the wall was planted with white azaleas, and clusters of white tulips were on the right, at the base. Wheaton Florist & Garden Center, Silver Spring, Md., was awarded an honorable mention for a semiformal garden that featured plantings of pink camellias and azaleas.

First prize in the rose garden competition was won by Conard-Pyle Co., West Grove, Pa., for two separate rose gardens, each identical in design, on either side of the main aisle. The gardens were formal in design, with washed gravel paths separating beds of the firm's newer rose varieties. Second prize was awarded to the Potomac Rose Society for a formal rose garden.

The competition for the best camellia garden in the show was won by the Camellia Society of the Poto-

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Well-balanced nursery carts of strong welded steel with 24x30x6-in. bed; holds 12 potted roses or equivalent in safe upright position. Two free-running, ball-bearing 10x1.75-in. wheels have semi-pneumatic tires. Shipping weight approximately 45 lbs.; shipped in carton and easily assembled.

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Customers who buy good stock appreciate products that help keep it "in the pink"; our high-Lindane formula has proved excellent for easy control of insects and diseases which attack flowering plants. In 50-lb. sacks for nursery use, and four resale sizes: 8-oz. sifter, 12-oz. dust gun, 1-lb. sifter and 4-lb. refill, all at 33 1/3% dealer's discount. Use coupon for complete information.

Practical products for the modern nursery, from the makers of CLOVERSET POTS . . .



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CLOVERSET FARM, Dept. A
 105th and Wornall, Kansas City 14, Mo.

Please send items checked:

- ☐ Handy Cart(s) at \$27.50 F.O.B. Kansas City.
☐ Complete information on Cloverset Rose Dust.
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Lifetime gardener, married, settled, with private place experience; able to direct others by his own example in how to put and keep lawns, annuals, house plants and all hardy ornamentals in picture-taking condition. Knowledge, skill, keen observation, adaptability and pleasing personality more essential than brawn. Husband and wife alone preferred, both with driver's licenses and fondness for dogs. Please consider these requirements carefully and realistically before replying. Isolated location in upper Bucks county, Pennsylvania. Attractive, comfortable four-room cottage, modernly equipped, unfurnished; small greenhouse attached. Salary to suit. State ages, experience, names of most recent employers. Reply by letter only to:

Richard Pratt
LADIES' HOME JOURNAL
1270 Sixth Ave. New York 20, N. Y.

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SALESMAN

To call on trade in Rocky mountain states for large, old-established and well-known midwestern wholesale nursery. A complete line of nursery stock and many regular customers in the territory. An excellent opportunity for a qualified man. Write giving full particulars about self and send small photo. All replies held confidential. Write Box 383, care of American Nurseryman.

HELP WANTED

LANDSCAPE SALESMAN

We need a man qualified in design, drawing plans, etc., to call on our customers. Salary until established, then commission.

We have a good sales area, 400 acres of nursery stock, and have been in business over 100 years. If interested write direct, giving your past experiences and references of former employer.

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BUSINESS OPPORTUNITY

Growing nursery will consider partner with capital. Plan on cash-and-carry setup to meet demands of rapid-growing area. Have all necessary equipment for general landscape work. Office (log cabin) center of nursery and large drive-in area. Ideal location. Write Box 381, care of American Nurseryman, or telephone 531, Plattsburgh, N. Y. (Sundays).

HELP WANTED

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Willing worker, with retail experience in merchandising and sales in a diversified garden center. Thorough knowledge of the nursery business essential. Permanent position for a responsible man.

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HELP WANTED

Old, established nursery needs salesmen qualified to design, draw plans and call on prospects of all types. Located in Maryland-Washington metropolitan area. 100 acres of nursery stock in wide variety. Excellent reputation for quality landscaping. Also have salesyard. Write giving training, experience and references. Reply to Box 379, care of American Nurseryman.

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Old established nursery and garden supply store with landscaping and tree service business. Located in southwestern city of 250,000 population with large government installations and industries. Mild winters—95 per cent average sun. Store has all-glass front, glass greenhouse, lath house, storage buildings, all on one acre of ground in city limits.

Complete selling price, \$75,000, which includes: Real estate, \$50,000; stock, equipment, good will, business name, etc., \$20,000; accounts receivable from \$5,000 to \$10,000. Will consider selling without real estate and give long-time lease. For further details address Box 367, care of American Nurseryman.

SITUATION WANTED

Man with lifetime experience in the nursery business, knows all phases of this industry, was formerly in business but dissolved partnership. Can merchandise nursery stock, manage any retail or wholesale operation, familiar with rough sketches, knows how to approach customers and usually obtains the customer's confidence. Available immediately, single, 50 years of age, is not afraid to work. Reply to Box 355, care of American Nurseryman.

SITUATION WANTED

Young man, age 26, experienced in landscape design, garden center sales and some growing, wants position in southeast—preferably Atlanta. College graduate, married and ambitious. Dedicated to this business. Reply to Box 380, care of American Nurseryman.

HELP WANTED

SALESMAN

Expanding wholesale nursery needs aggressive representative. Write giving age, experience and all pertinent information in first letter. All replies will be kept strictly confidential. Write Box 348, care of American Nurseryman.

HELP WANTED

Experienced nurseryman to be in charge of 2 small greenhouses, raising annuals and perennials and selling nursery stock. Chance for advancement. State age, qualifications and salary desired. References required. Reply to: P. O. Box 596, Hyattsville, Md.

HELP WANTED

Long-established nursery in Connecticut needs young man experienced in drawing landscape plans and estimating. Excellent business future. Send replies to Box 387, care of American Nurseryman.

FOR SALE

75-acre nursery, fruit and vegetable farm in western Canada. Beautifully laid out, roads and river with bridge. Ideal soil, sandy loam on clay, excellent rainfall area. Good buildings, large fully modern house. Good business trade on main hard-topped highway. Address replies to Box 325, care of American Nurseryman.

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Good business, in beautiful Colorado Springs, Colo. Large, new lath house and irrigation system. Storage shed, garages, workshop and large root shed. 6-room ranch-style home, with service porch, bath and a half, and full basement. Over four million dollars in government contracts being released in this area. Write to Box 386, care of American Nurseryman.

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Well-equipped nursery located within the city limits of Minneapolis, Minn. Situated on a heavily traveled main highway, close to veterans' hospital. Two large lots (fenced) with a good building, neon signs, a good stock of seed, shrubs, trees and evergreens. Contact:

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Southern Michigan nursery with or without full equipment and stock. Six-room modern bungalow with walk-out basement, attached and separate greenhouses. 100 acres, more or less. For details address Box 382, care of American Nurseryman.

FOR SALE

An old-established nursery in western Wisconsin. Good opportunity for an industrious man. Location: none better; beautiful and outstanding. 20 acres rich soil. Large, substantial utility building. One-half cash; balance terms. Write Box 385, care of American Nurseryman.

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Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.
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FOR SALE—Nursery, 5 lots, A-1 stock and 3-bedroom home, \$28,550. Top location in center of 500,000 area. Frostfree. Profitably operated 8 years. Trees, shrubs, plants, fertilizers, insecticides, pottery, seed, supplies. Retiring. Would consider leasing. Excellent for couple. Write: OWNER, 4819 University, San Diego, Calif.

FOR SALE—Shop and machinery for making paper flower pots. 3600 sq. ft. of building and room to build; with or without adjacent home. Located in suburb of large midwestern city. Second year of operation and business growing. Write Box 384, care of American Nurseryman.

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FOR SALE—Snow fence and nursery lath manufacturing plant. Doing nation-wide business. Ideal location in promising, new industrial area. Address inquiries to: FENCE CO., Box 4, Marshall, Tex.

mac Valley for a raised red brick terrace garden, semiformal in design, dressed with potted specimen camellia plants. Hill's Camellia Gardens, Arlington, Va., were given second prize for a formal camellia garden in shades of pink.

Small gardens were also exhibited by Ridgeville Nurseries, Mount Airy, Md.; Falls Church Florist, Falls Church, Va., and Chambers Flower Center, Washington, D. C.

Special Awards

The Florida Nurserymen and Growers Association was the recipient of a special award for an exhibit that featured a replica of a Seminole Indian home, complete with family, against a backdrop of tropical foliage and flowers.

Kensington Orchids, Inc., Kensington, Md., won a special award for a natural tropical setting that featured dozens of flowering orchid plants in many varieties along a small walk that led to a grass shack. A small natural pool on the left of the shack was also planted with flowering orchid plants.

Summit Hall Turf Farm, Gaithersburg, Md., displayed a gently sloping turf area, with a white board fence at the top of the slope. A white-washed birdbath was in front of the fence, with a backing of broad and narrow-leaved evergreens and white and pink hyacinths.

Louis Hahn & Son, Pittsburgh, Pa., used a woodland setting for huge drifts of white, pink and blue hydrangeas. Several varieties of azaleas were in the background and surrounding two large stumps.

CAPITAL SHOW

Spring staged a colorful preview for close to 150,000 garden enthusiasts from the middle Atlantic states area, who jammed the huge National Guard armory in Washington, D. C., from March 7 to 13 to view the floral spectacle provided by the seventh annual flower and garden show sponsored by the Allied Florists' Association of Greater Washington.

The attendance for this show, which was officially opened by Mrs. Earl Warren, wife of the chief justice of the Supreme Court, was the largest ever recorded.

Focal point of the 7-day show, again designed by landscape architect Boris V. Timchenko, was the hourly performance of the Dancing Waters fountain, an electrically controlled water spectacular, which danced to the rhythm of multicolored lights and symphonic music. The fountain was at the far side of



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the arena, facing the main entrance, with an azalea planting from Louis Hahn & Son, Pittsburgh, Pa., in the foreground.

The gardens were arranged in a radial effect around a huge display of tulips in the center of the floor. Landscape designers stressed the formal and semiformal design line in their gardens, with accent on the use of the garden as a special "room" for outdoor living.

The Washington Evening Star trophy, emblematic of the best garden in the show, was awarded to A. Gude Sons Co., Rockville, Md., for a formal raised terrace garden of 750 square feet. The terrace featured a circular flagstone patio that held a stone garden bench and was backed by a planting of specimen boxwood. Grass walks on each side of the terrace were accented by rectangular beds of bright yellow tulips, and flowering trees at the entrance of the paths were underplanted with flowering pink camellias. Masses of white azaleas were on both sides of the stone bench. The foreground of the garden featured a circular planting of the tulip variety Masquerade, which was edged with dwarf boxwood. Vinca was used as a ground cover.

In the large garden category competition, won by A. Gude Sons Co., the second prize was awarded to J. H. Burton & Sons, Hyattsville, Md., for a formal planting of white azaleas overlooking a large grass mall. The flowering azaleas were backed by several varieties of berried holly.

Third prize in this classification was given to J. H. Small & Sons, Inc., Washington, D. C., for a raised terrace garden in formal design. The terrace was flagstone, set with outdoor furniture and surrounded on three sides by flowering annuals and perennials and low-growing roses on the right. Light and dark pink geraniums were planted in the foreground beds to accent the two entrances to the terraced area.

Stock Bros., Bethesda, Md., won first prize in the 300 square foot competition for a semiformal garden that featured a field stone retaining wall in a graceful curved effect to set off the grass area. The raised area was planted with native deciduous shrubs and evergreens. The base of the wall was edged with yellow tulips, white and purple hyacinths, pansies and primroses. A low circular birdbath was placed at the left of the grass area, with a rustic wooden bench on the right against the field stone wall.

Gustin Garden, Washington, D.C., was given second prize in this com-

petition for a formal patio garden. The center of the garden featured flagstone steps, with beds of pink azaleas, edged by boxwood, on either side. Two grass paths, one on the right and the other on the left, led to a terrace area and were accented by low-growing flowering trees.

Small Gardens

In the small garden category, first prize was awarded to Thomas E. Carroll & Sons, Rockville, Md., for a semiformal terrace garden backed by a sapling fence. A stone garden bench was used as a focal point in front of the fence, with a specimen holly tree on the right and upright taxus behind. The left side of the bench area was planted with white and pink azaleas and yellow tulips. Washed red brick steps led to a small grass area in the foreground. The entrance to the area was planted on the left with white hyacinths and yellow tulips and on the right with a pink specimen azalea plant.

LONG ISLAND SHOW

The Long Island Nurserymen's Association had the distinction of being the first organization to present a show in the spacious, multi-million dollar Island Garden arena at West Hempstead, L. I. In fact, the arena was so new it was still in the process of being completed at show time, March 14 to 18. A sign displayed at the entrance carried the management's apology for the unfinished appearance because weather conditions had delayed construction. These same weather conditions created some uneasy moments for the nurserymen before the opening date. It was the nurserymen's 11th show.

Besides the exhibitors, these men did exceptional work in organizing the event: George Hren, Huntington, chairman of the show; Peter Costich, Westbury, president of the Long Island Nurserymen's Association; Frank BonGiorno, West Hempstead, treasurer of the show, and Clinton Hewitt, Garden City, chairman of the commercial exhibits. In past years the show was held at Hicks Nurseries, Inc., Westbury, L. I., and nurserymen are grateful for that firm's cooperation.

The arena this year afforded the association the opportunity to display all exhibits under one roof. More than 12,000 persons attended the show, and competition was keen in the competitive classes.

Exhibits were arranged, for the most part, with the average Long Island homeowner in mind. The person looking for do-it-yourself ideas

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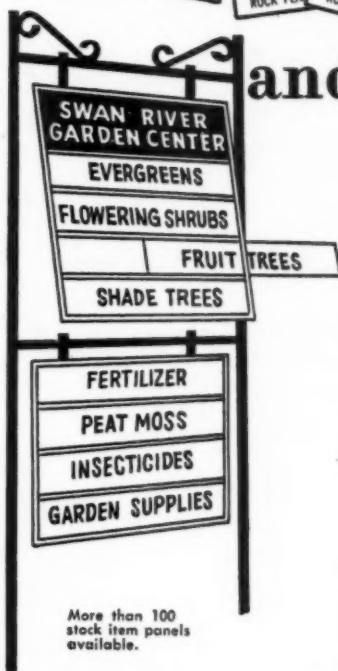
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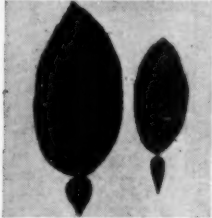
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Indoor-blooming citrus tree, leaf on left, was sprayed with MIRA-CELL at Stern's Nurseries. Note extra growth in 3 days, compared with normal-size (untreated) leaf on right.

Gibberellin, gibberellin—who's got the gibberellin that's got the whole horticultural world excited? We have—in a practical horticultural formulation that builds your profits 2 ways! Stern's MIRA-CELL is packaged in professional sizes, for you to use with profit in your own greenhouses, nurseries, and shop... and in home garden sizes, for you to sell for big profit to your retail customers.

Grow Bigger Flowers and Plants... FASTER!

This new type of plant growth stimulant creates a healthy hunger in plants, encouraging increased food intake for faster growth. When sprayed on plants, Stern's MIRA-CELL increases the size of the plants' cells. Bigger cells mean quicker growth. Longer stems! Frequently, more buds per stem! Bigger leaves! More flourishing plants! Plants up to 3 times bigger than ever before! More attractive, more salable plants that command premium prices! A longer, more profitable selling season, too—because plants which have previously required rest periods, cold treatment, or variable day length have been made to start active growth immediately!

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could take his pick of many construction methods and planting arrangements. The theme throughout was "Plant Long Island."

The nurserymen's displays occupied the center of a large area and were separated from the commercial exhibits, which were along the outside walls, by a screen of green canvas. The flower arrangements of the women's garden clubs were located on an upper level, which afforded the visitor a view of the nursery exhibits that is seldom given. The circulation of visitors was unhampered by the over-all arrangement. With the completion of the arena there will be plenty of room for expansion of the show in years to come.

Among the many unusual plants were an arctic willow, a weeping blue spruce, a cut-leaved Japanese maple and the following in full flower: Kousa dogwood, Deutzia gracilis, ericas, azaleas, Scotch broom and crab apples. Several American hollies were shown in fruit, along with Ilex crenata types, including Ilex crenata compacta and helleri.

Awards

Twenty-three gardens were entered into competition for first, second and third places and honorable mention. In class A, consisting of gardens covering approximately 400 square feet, featuring patio and terrace gardens, Landscape Associates, Brookville, and Dalsimer's, Inc., Cedarhurst, won first place with a modern patio garden combining a planting of naturalistic and artistic design. A best in show award of a silver plate also went to this display.

Second place went to Atlantic Avenue Nursery, Freeport, which featured a large patio motif, with a practical and attractive outdoor living area including such unusual material as yellow rhododendrons, cotoneasters and variegated pachysandra.

Hicks Nurseries, Inc., Westbury, was awarded third place for a modest-size plot showing how one can make a garden attractive for outdoor living all year round.

In class B, for gardens covering 300 to 400 square feet, including rock gardens, first place went to Bulk's Nurseries, Babylon. Japanese cut-leaved maples were featured in the garden, along with azaleas and mahonia. A small corner pool and lawn area added tranquillity.

Second place was awarded to Anton Hren Nurseries, Huntington, for a patio garden which included a barbecue area.

Laurel Hill Nurseries, Inc., East Northport, won third place with a

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Size 3 Top . . . 8 1/2 ins. Bottom 6 1/2 ins. High . . . 9 ins. Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100. \$5.00 1000. \$47.50 Heavy Weight Price 100. \$6.25 1000. \$60.00	Size 4 Top . . . 10 ins. Bottom 8 ins. High . . . 10 ins. Weight per 100—120 lbs. 100. \$11.00 500. \$52.50 1000. \$100.00 Heavy Only For trees and shrubs.	Size 5 Top . . . 12 ins. Bottom 10 ins. High . . . 12 ins. LG. POT Weight per 100—250 lbs. 20. \$30 ea. 100. \$27.50 500. \$125 1000. \$225 Special for extra-heavy trees and large shrubs.	Size Pan Top . . . 8 1/2 ins. Bottom 7 1/2 ins. High . . . 5 ins. PAN Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100. \$5.00 1000. \$47.50 Heavy Weight Price 100. \$6.25 1000. \$60.00

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NEW JERSEY	New Jersey Farm Supply, 449 Market St., East Paterson, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J.
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special back-yard planting, and Oak Park Nurseries, East Patchogue, placed fourth with a lawn planting at the rear of a home.

A special award was given to Hicks Nurseries, Inc., for a non-competitive garden featuring a sea-side theme.

Gardens covering 100 and 200 square feet, with no restrictions as to rock gardens, were judged in class C as follows:

First—Port Washington Nursery, Port Washington, carrying out a theme with an artistic rock garden, lawn area and walk leading to a small statue.

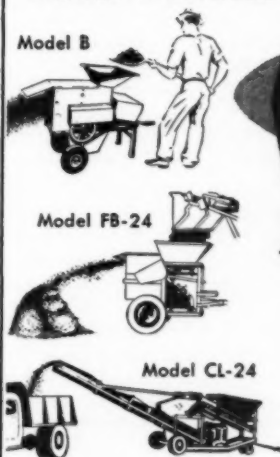
Second—Hermann Eberhard, Franklin Square, accenting hollies in a patio effect in his garden.

Third—Wyandanch Nursery, Wyandanch, showing an attractive layout with birch trees, rhododendrons and other plant material.

Fourth—Robinson Nursery, Bethpage, featuring a back-yard planting, with a large tree and an inviting love seat.

Fifth—Schenk Landscaping Co.,

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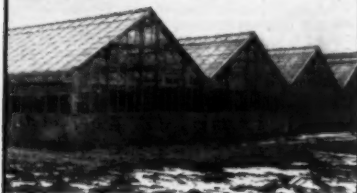
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Hicksville, featuring a magnificent picture window with an indoor planter eight feet long in view.

First prize in each class was a beautiful silver bowl; plaques were awarded to second, third, fourth and fifth-place winners.

Park Department Display

The Nassau county park department received a special award of a silver bowl for an imaginative treatment of an outdoor living area. A semicircular sandbox, containing children's toys and a lost shoe, was placed within a dry brick patio, bordered with Lemon Drop marigolds. Two other points of interest were the flowering kousa dogwood and a do-it-yourself plan of how the garden could look after the children had grown older. With a little work the sandbox would become a small pool.

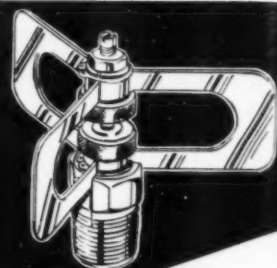
John Groeneveld, Roslyn Heights, received a special radio award from station WGSM, of Huntington, and station WGBB, of Freeport. Mr. Groeneveld's exhibit contained a weeping blue spruce, a large weeping hemlock, a variegated Japanese andromeda, some heath, candytuft and several small golden thread chamaecyparises. All of these plants were arranged in a pleasing and uncrowded naturalistic bank planting.

The educational exhibits were popular as they offered much that was within the understanding of the layman. The Planting Fields campus of the Long Island Agricultural and Technical Institute displayed many beautiful plants that are seldom seen in their natural state by homeowners. This unusual exhibit displayed orchids, anthuriums, lilies and amaryllises under simulated natural growing conditions. The school of ornamental horticulture of the institute, located on the Farmingdale campus, displayed an unusual collection of Azalea mollis and Azalea vaseyi in full flower, along with primroses.

A particularly appropriate educational exhibit was displayed by the Nassau county extension service. Fescue; Kentucky and Merion Kentucky bluegrass, and crab grass were shown as live sod. There was a comparison of zoysia and Bermuda grass, showing the textures in the warm months and the brown, dried-out condition of these grasses during the winter months on Long Island.

Holly Exhibit

The exhibit of Holly-by-Golly, St. James, L. I., was another good educational display. Hollies were shown as house plants during the winter months, bringing color particularly



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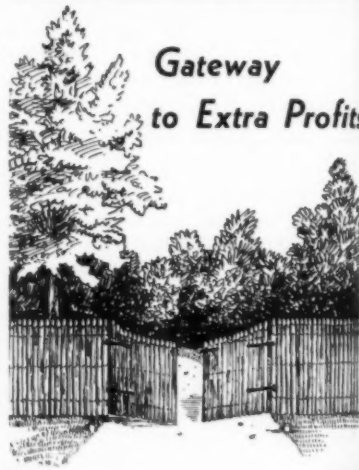
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at Christmas, with the planned future usage as outdoor plants later in the spring and summer. Shown also were several plants often sold as hollies which are not hollies.

An information booth was manned by the faculty of the school of ornamental horticulture of the Long Island Agricultural and Technical Institute, in conjunction with some of the nurserymen. Practically no horticultural questions went unanswered. The nurserymen distributed a brochure listing plants recommended for Long Island.

Among the many commercial exhibits containing horticultural products were several that drew much public interest. These included displays of a plastic greenhouse, an aquatic garden, garden equipment, a ready-made barbecue pit and colored burlap put to various uses.

D. W. G., Jr.

PHILADELPHIA SHOW

Visitors to Philadelphia's 30th annual flower show at the Commercial museum during the week of March 25 to 30 beheld a 4-acre spectacle with gardens of an international flavor as the central theme. Gardens of England, Japan and Holland, together with a desert garden, a tropical garden and two huge rock gardens, were represented around a 200-foot lagoon and pond that made up the center display.

The main attraction of the international garden lagoon area and also the largest exhibit at the show was the realistic Dutch scene at one end of the lagoon, featuring a 35-foot windmill with moving vanes, dikes, a barge, a drawbridge and a garden surrounded by an estimated 10,000 tulips in various colors. This setting involved one of the largest moving operations for the more than 200 workmen and gardeners who set up the show. Tons of soil and moss were laid down by machines. A suggestion of the Swiss Alps, for example, was created by hauling 35 tons of rocks, some of them weighing two tons, into the hall to form the two 20x40-foot hillsides that were transformed into rock gardens featuring the vegetation of the Swiss Alps.

Opposite the first of the two lagoons built by John Huntress, Vineland, N. J., was the English garden created around a part of an English house with exposed timbers and leaded-glass windows. This scene was constructed by Stanley Leighton, Whitmarsh Nursery, Plymouth Meeting, Pa., in tan and brown, with many spring flowers surrounding the

[Continued on page 110]

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Some Small Trees for Indiana

By Norman Marty

Purdue University, Lafayette, Ind.

In recent years, the use of small trees has been increasingly emphasized. Low, sprawling, ranch-style homes have changed the aspect of scale relationship between the home and the surrounding vegetation. The trend towards integration of the interior of the home with outdoor living areas has presented opportunities for new uses of these and other plant materials. Limitations of available space, such as narrow streets with small building setbacks, small lots, power lines and underground tile lines and septic tank distribution fields, have dictated attempts to plant trees which will not outgrow their locations.

People are impressed, and rightly so, by large, majestic shade trees growing in good locations. When they want to plant a tree on their own property, this impression influences their judgment. Red maples and white oaks are wonderful trees, but in too many cases they end up right beneath power lines. Then, in not too many years, the trimming process begins. It is somewhat like buying a boxer puppy for a 1-room apartment. Eventually one must move to a larger place or make concessions to the dog. Why not get a Chihuahua in the beginning and avoid future complications?

Group Size Range

What, then, constitutes a small tree? The upper limit which divides small trees from large trees can be set at any arbitrary mature height. In most attempts to divide trees into size groups, one adds a third, a medium-size class. Some of the trees which are discussed here would fall into this medium-size group. The mature height of a tree is so greatly influenced by soil and water conditions, climate and other environmental factors that any generalized predictions of ultimate size can be only rough estimates.

At the lower limit, the problem of differentiating between a small tree and a large shrub is often even more difficult. A common solution is to designate single-stemmed plants as trees and multi-stemmed plants as shrubs. A brief investigation of this convenient definition soon discloses its many limitations. Some species that are ordinarily small trees under optimum growing conditions may be shrubby at the northern ranges of

their hardiness. Others, such as common witch hazel, *Hamamelis virginiana*, and nannyberry viburnum, *Viburnum lentago*, are shrubby in youth, but attain the stature of a small tree with maturity or old age.

Still others which are ordinarily many-stemmed are commonly trained, or can be trained, to a single trunk. Included in this group are eastern wahoo, *Euonymus atropurpureus*; hardy silk tree, *Albizia julibrissin rosea*, more frequently called mimosa; cornelian cherry, *Cornus mas*, and saucer magnolia, *Magnolia soulangeana*.

At the opposite extreme, fashion has dictated that certain single-trunked trees be grown as multi-stemmed specimens, or clumps. Thus we have birch clumps, which are actually imitations of diseased or injured birch trees that have died at the top and resprouted.

Enclosure Types

Another, more recent, method of division of plants into trees and

shrubs is a result of the concept of space relations. From this viewpoint, shrubs give enclosure of any height and breadth at the sides of a garden, while trees give enclosure and shelter overhead. Thus, if a plant is tall enough, broad enough and sufficiently high-branched for one to walk beneath it, it would be classed as a tree, no matter how many trunks it possesses. On the other hand, a plant which trails its branches near the ground and interrupts circulation and line of vision would be in the use category of shrubs, even if it were 20 feet high or higher and had only one trunk.

By this theory of space relations, many species would overlap the boundary between trees and shrubs, just as in a division by the number of trunks, but the criterion which would decide their placement as a tree or as a shrub would not be an over-all average of all the plants of a species, but the shape, form and use of the individual plant. Most eastern red-buds, *Cercis canadensis*, and Wash-

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ington hawthorns, Crataegus phaenopyrum, would be trees. A flowering dogwood, Cornus florida, could be pruned high and allowed to canopy and be a tree, or its lower branches might be kept and allowed to sweep the ground and thus create a shrub form.

The question often arises as to what extent this practice of pruning high to develop a tree form should be carried. This depends on the characteristics of the plant—its mature height, its spread, the shape of its crown, its method of branching and so on. A flowering dogwood, for example, lends itself well to being pruned high enough to be walked under, while the ornamental and use value of a cockspur hawthorn, Crataegus crusgalli, would be lost by such pruning.

What, then, are some of the trees that lend themselves to use as small shade trees or street trees? The need for such trees has been recognized, but, in general, many of the trees which fulfill these requirements are still generally unknown to the public.

Maple Variations

Although when we think of the maple genus we usually visualize large, spreading shade trees such as sugar maple, silver maple and red maple, this general group includes a

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big variation in habit, size and growth rate, including many lesser-known species and varieties whose mature heights are 30 feet or under. One of these is the hedge maple, *Acer campestre*, a small tree to 25 or 30 feet, with a rounded crown and dense foliage. Although normally rather low-branching, the subject can readily be pruned higher to be used as a shade tree. It tolerates poor soil and city conditions. The chief limitations are its lack of autumn color and its slow rate of growth.

The Amur maple, on the other hand, turns a brilliant red early in the autumn and is fully as colorful as any of the larger maples. In summer, its red-winged fruit shows up well in contrast to the background of green foliage. In other respects it is quite similar to the hedge maple, except that its ultimate height is somewhat less and it is perhaps not quite so tolerant of poor soil and city conditions.

The two native serviceberries—shadblow serviceberry, *Amelanchier canadensis*, and Allegheny serviceberry, *Amelanchier laevis*—are fast-growing trees whose narrow crowns usually do not exceed 15 to 20 feet at maturity. They reach an ultimate height of 15 to 30 feet and sometimes more, with the shadblow serviceberry being the taller of the two. Their delicate, white flowers are among the first signs of spring, and they are one of the first trees to show foliage. The summer foliage is light green and of a fine texture, giving a light and airy effect. In autumn the leaves turn yellow-orange to shades of red. The plants are quite free from insects and disease and prefer half shade or shady locations. Although tolerant as to soil preference, they grow best in rich woodland soil. They are chiefly recommended for naturalistic plantings, but their range of usefulness could well be extended.

Dense Tree

Should one desire a dense tree so regular that it almost appears formal, the katsura tree, *Cercidiphyllum japonicum*, can be considered. At maturity it is 20 to 30 feet in height, but occasionally considerably higher, almost as broad as it is high, with a broadly ovate head and a markedly horizontal branching manner. This species is dioecious, and the staminate trees are narrower than the pistillate trees. The growth rate is rapid, at least while the tree is young, and insects and diseases are of little concern. It comes into leaf early in the spring, and the young foliage is often tinted pinkish

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or reddish. Although it is not showy in flower or in fruit, its excellent foliage and early autumn color from yellow to hues of red are still sufficient to recommend the tree for greater use. It is difficult to transplant, due to its wide-spreading, shallow root system. Because of this type of root system, the tree should probably be used in areas which are not heavily trafficked. A good, rich soil and sunny situation are preferred.

Sourwood

Another tree noteworthy for its fine form, foliage and autumn color is sourwood, *Oxydendron arboreum*. It is not hardy throughout Indiana, however, and can only be grown in the southern part of the state. Pyramidal in habit, it will attain a height of 20 feet, sometimes considerably more, but it is slow growing. As with the katsura tree, the young foliage is often tinted, in the case of the sourwood being in tones of bronze. Summer foliage is bright green and lustrous, turning brilliant scarlet in the early autumn. In addition to having other fine qualities, the tree effectively displays its small, white, slightly pendulous racemes of flowers in mid-July and the dry fruit capsules far into the winter. The sourwood is easy to transplant and can be grown either in the open or in the shade, but it prefers moist, somewhat acid soil. The name sourwood comes from the fact that the leaves have a distinctly acid taste. All things considered, this is an exceptionally fine small tree in areas where it can be grown, providing interest during all seasons of the year.

Tolerant Trio

For tolerance to drought, heat, poor soil and dust of city conditions, there is a fine trio of small trees. They are paniced golden-rain tree, *Koeleruteria paniculata*; Amur cork tree, *Phellodendron amurense*, and Japanese pagoda tree, *Sophora japonica*. All three are native to the Orient, but are hardy in Indiana. They all transplant relatively easily, require sunny situations and are quite free from insects and diseases. They have pinnately compound leaves which show no autumn color to speak of, although the leaves of the Amur cork tree turn a bronze-yellow briefly before they fall. All three have been recommended for use as street trees, although paniced golden-rain tree is rather weak-wooded, and the fruit of the pistillate Amur cork trees might be a nuisance. But in extreme city conditions where it is difficult to get any tree



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to grow, these would be minor faults. The Japanese pagoda tree has been extensively used as a street tree in some sections of the Orient.

The panicle golden-rain tree is slow-growing, but will reach a stature of 20 feet or slightly higher, with a spread roughly equal to its height. Its appearance is rather umbrella-like to flat-topped; it is sparingly branched, and it has a deep, bright green foliage of medium texture. The flowers in midsummer are small and yellow, borne in large, upright, pyramidal clusters. The fruit, which follows in late summer and persists into the winter, is in the form of clusters of triangular, bladderlike husks, which go through a color succession of yellow-green to white to pinkish to brown as they mature. Both the flowers and the fruit are showy.

Amur Cork Tree

A deeply fissured, corky bark, short trunk and massive, sparse branches of rather picturesque habit give the Amur cork tree a striking appearance in winter. In summer its deep bright green foliage is loose and open and of medium texture. The flowers in late spring or early summer are of little interest, but the small, black cherries in large panicles which are produced in early fall are quite attractive; when bruised, they have the odor of turpentine. This species is dioecious, however, so only the pistillate plants bear this autumn display of fruit. The Amur cork tree will sometimes reach a height of about 45 feet and is broad-spreading, 30 to 40 feet, with an open, rounded crown. It is a rapid grower, at least in its young stages.

The Japanese pagoda tree is also a rapid grower and may reach a height of 40 or 60 feet, with a spread almost equal to the height. It has a short trunk and a broadly oval to rounded crown, which is dense in youth, becoming quite open in age. It is fine in texture. The deeply fissured and corrugated bark has much the appearance of a white ash, and it has a strong, offensive odor when cut or bruised. Cream-colored pea-like flowers in large conspicuous panicles are produced freely in midsummer to late summer, and these are followed by yellow-green, jointed fruit pods, which are soapy when crushed. The fruit frequently persists throughout the winter, giving a finer texture and yellow-green color to the winter appearance.

Another Japanese import is the Japanese tree lilac, *Syringa japonica*,



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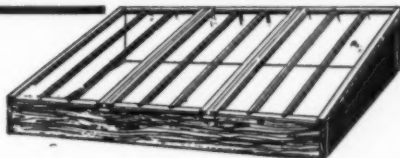
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a small, fairly rapidly growing tree to 30 or 40 feet in height and about as wide. In youth it is pyramidal, becoming more rounded with age. Its texture is somewhat coarser than that of the common lilac. The smooth, cherrylike bark is attractive in winter. Its chief value, however, is in the large, yellowish-white, showy panicles of flowers, which are produced in early summer after all other lilacs have finished blooming. To bloom well, the tree should have a sunny location. It has no autumn color or attractive fruit, and borers and scale must be kept in check. For these reasons, along with the fact that its flowers have a disagreeable odor, many do not recommend its use, but its fine form and beautiful floral effect at a time when there is not too much else in the landscape to create special interest should not be overlooked when these characteristics may be desired.

Any discussion of good small to medium-size trees would be lacking if no mention were made of the American hornbeam, *Carpinus caroliniana*, often called blue beech, and the American hophornbeam, *Ostrya virginiana*, more commonly referred to as ironwood. Both of these are being extensively recommended for use as small shade trees and street

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trees where space is limited. They will grow either in the sun or in the shade. In shady, wooded areas they are rather open and irregular, but in open situations they develop dense, compact, almost globose heads. They are tolerant of soil conditions, clean, have excellent fine-textured foliage, color up brilliantly in the autumn (the American hornbeam turning brilliant orange-red to deep crimson, and the American hophornbeam a clear, bright yellow), bear fruit which is interesting although not showy and are free of any serious diseases or insects.

Slow Growers

Both of these trees are native to eastern North America, where they are usually found as undergrowth trees. They are more difficult to transplant than the average tree and are slow growing, the latter point being their main drawback in today's society where immediate results are demanded.

The American hornbeam will reach a height of 20 to 30 or even 40 feet, but usually remains under 30 feet, and attains a width of 15 to 20 feet. The trunk is fluted, or "muscle," giving an appearance which has been described as Gothic. The bark is smooth, in young trees resembling the bark of beech, and is blue-gray or slate in color, resulting in the colloquial name of blue beech.

If crowded, the American hophornbeam occasionally will reach a height of 50 or 60 feet, but it is usually a small tree, 25 to 30 feet high, spreading 20 to 25 feet in diameter. The trunk is slender, as are the wiry, interlacing twigs. The dark gray bark is furrowed into long, vertical strips. Ironwood, another name often used, stems from the proverbial hardness of the wood. This name, however, is confusing, as it is also used frequently in referring to the American hornbeam, which also has very hard wood.

This has not been an attempt to list or describe all of the desirable small trees that can be used in Indiana. None of the low-branching types, which are valued chiefly for their floral display, have been discussed here, and the list of trees which can be used as small shade trees is by no means complete. Only some of the better, lesser-known types have been reviewed.

Caution

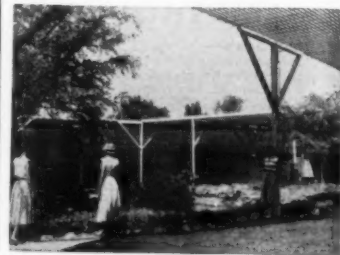
Before completing a discussion on the use of small trees, a word of caution is in order. Although in most places their use could be much ex-

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panded, their worth cannot approach the importance of the larger shade trees. There has already been some speculation about the dwarfing effect on our cities and countryside that the present trend toward smaller plant materials could produce if carried to the extreme.

Large trees are the most important features of most landscapes. They contribute a great share of the visual unity of our whole country, tying together small groups of buildings and uniting cities into logical units, while at the same time blending them into the surrounding countryside. They are in scale with the broader aspects of our country and society.

The smaller trees help to provide a transition between these large, towering trees and the small compact homes of today. They are more in scale with the people who inhabit these homes and therefore give a feeling of intimacy and privacy to the individual home grounds.

These considerations, along with those mentioned earlier, should be taken into account whenever trees are to be planted. There are good uses for all types of ornamental plant materials. It remains for one to choose wisely according to the needs of each situation.

BRAZILIAN CHERRY

A mature specimen of an unusual cherry species was found recently in the Richmond, Calif., yards of the Santa Fe Railway System. Clell E. Bowman, a Richmond specialist in tropical and subtropical plants, who identified the tree as cherry of the Rio Grande, says that it is prized in Brazil for its delicious fruit, which resembles a giant Tartarian cherry in appearance and flavor.

Though no one knows how the cherry came to be planted at the Richmond location, Mr. Bowman remarked that forms of the handsome evergreen tree, which reaches a height of about 15 feet in maturity, are becoming popular with California landscape architects as ornamental trees.

DAVID J. MITCHAM is opening the Presque Isle Nursery & Floral Center this spring at 2315 Peninsula drive, Erie, Pa.

PURCHASE of a 160-acre farm has been announced by Mr. and Mrs. Frank Brown, Brown's Greenhouse & Nursery, Junction City, Kan. Planting of evergreens on 60 acres of the farm will begin this spring.

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Legal Decisions

LICENSE TAXES

AGAINST NURSERY TRUCKS

A recent decision by the Wisconsin Supreme court on the question of classification of nurseries for licensing and other purposes is of special interest to nurserymen in that state. The decision is also a matter of interest in other states, because it shows that a statute covering "farms" may be interpreted as including nurseries, where there is no special provision for nurseries in the law covering the same subject. (Holt & Hunkel Greenhouse Co. v. State of Wisconsin, 80 N. W. 2d 371.)

The court decided that, as specially worded, the Wisconsin motor vehicle registration law, providing for payment of fees for registering "farm trucks," applies to nurseries but not to greenhouses.

The company owns about 450 acres, covering eight tracts, within a 2-square-mile area. Separate operations include a farm, a nursery and a greenhouse. Each division is operated as a separate business, the greenhouse operation being the major industry. Of nine trucks operated by the company, one was used for the farm business, two were for the nursery and the others were for the greenhouse activities. The attorney general and a county circuit court judge ruled that all nine were classifiable as "commercial" trucks, carrying a higher license fee than "farm" trucks. The Supreme court decided that the ruling was erroneous, as to the trucks used in the farm and nursery divisions, but correct as to the greenhouse trucks. The higher court said:

"The motor vehicle registration law contains no definition of 'farm' or 'farming.' When we look to definitions of such terms in other statutes not dealing with the licensing of motor vehicles, we find that the legislature has not followed a consistent pattern.

"For the purposes of the workmen's compensation act, section 102.04(4), statutes 1953, defines farming as follows:

"As used in this chapter 'farming' means the operation of farm premises owned or rented by the operator. 'Farm premises' means areas used for operations herein set forth, but shall not include other

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areas, greenhouses or other similar structures unless used principally for the production of food and farm plants. 'Farmer' means any person, firm and private corporation engaged in farming as defined. Operation of farm premises shall be deemed to be the planting and cultivating of the soil thereof; the raising and harvesting of agricultural, horticultural or arboricultural crops thereon. * * *

"On the other hand, for the purposes of unemployment compensation, section 108.02 (23) (c), statutes 1953, the term 'farm' is defined as follows:

"As used in this subsection, the term 'farm' includes stock, dairy, poultry, fruit, fur-bearing animal, and truck farms, plantations, ranches, nurseries, ranges, greenhouses or other similar structures used primarily for the raising of agricultural or horticultural commodities, and orchards."

"Chapter 93, statutes 1953, describes the powers, duties and functions of the state department of agriculture. A reading of this statute discloses that the activities of such department are intended to extend into fields beyond that which is ordinarily understood to be farming. For example, section 93.07(4) pro-

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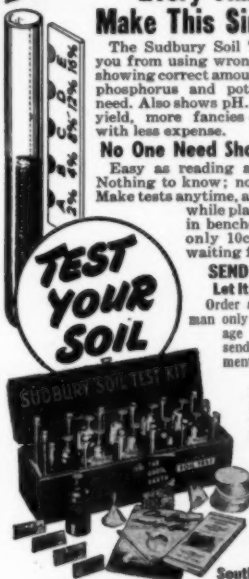
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case, it is only natural that in defining 'farm products' the motor vehicle registration law would use the widest possible definition to be consistent with the widespread func-

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tions of the department of agriculture. Such definition is set forth in section 93.01(10), statutes 1953, and reads as follows: 'Farm products' includes all products of agriculture, horticulture, dairying, livestock, poultry and bee raising.'

"In view of widespread planting of trees by farmers under the state's reforestation program, and the sale by farmers of wood and timber from farm woodlots, we deem that trees are 'farm plants' within the definition of 'farming.' * * * This being so, the legislature seems to have consistently provided that the operation of nurseries which grow trees be embraced within the term 'farming.' We, therefore, can perceive no persuasive reason why the conducting of a nursery should not be embraced within the term 'farm' as employed in the registration law."

NURSERY TAX DECISION

As shown by a decision reached by the Illinois Supreme court some years ago, when a nurseryman severs stock from the ground for sale it becomes personal (chattel) property. It remains such, under ordinary circumstances, even though the contract of sale requires the nurseryman to plant, care for, and, if necessary, replace the stock.

The decision was rendered in a case concerning the question of whether, under a contract involved, the sale was subject to Illinois license tax. The nursery which challenged the validity of the tax conceded that ordinary sales of stock—in which the nursery fulfills its contract by delivering the stock to the buyer—were subject to tax.

But in this case the contracts involved required landscaping services, planting of the stock by the nursery, replacement of unsatisfactory stock, etc. The contracts were not regarded as having been performed until the trees and shrubs were properly growing on the buyer's land.

The company's lawyers unsuccessfully argued that, because the company transplanted the stock from its own land to that of the buyer, the stock could not be regarded as having ever become chattels within the meaning of the license tax law. (Swain Nelson & Sons Co. versus department of finance, Illinois, 6 N. E. 2d 632.)

In deciding that taxes were collectible, the Supreme court said:

"There is an indisputable implication that the object of one engaged in the nursery business in growing trees and shrubs is not for the purpose of producing shade, beautifying

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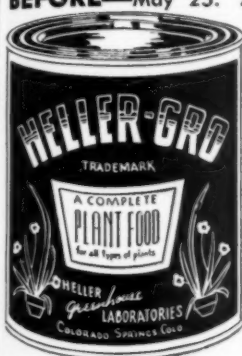


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his own premises or converting the trees into firewood or lumber, but rather to sell the stock to customers. Excluding any question of intention, such trees and shrubs, when severed for the purpose of transporting to other premises would ordinarily, at that stage, be considered as personal property. The problem is then narrowed to whether the true character of such trees and shrubs, when taken from the soil of the nursery with the intent only of transplanting them and making them grow in the customer's land, continues the trees and shrubs as realty, or whether they lose such character and become tangible personality within the purview of the retailers' occupation tax act. . . .

"The trees and shrubs in question are severed from the soil as a necessary step precedent to replanting them. When placed in the customer's land, a substantial portion of the terms of the contract has been carried out. They are so reset, however, for the use of the customer who, under the terms of the act, is the ultimate user or consumer. At this period the trees and shrubs are no longer the property of the nursery. If they do not grow, the nurseryman is obligated to replace them until he has delivered such as do grow.

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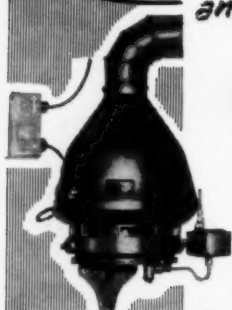
tegral part of the transaction is the value of the trees and shrubs transplanted. The service is a mere incident to the sale of the goods. Such value has been included by the seller in fixing the consideration for the sale.

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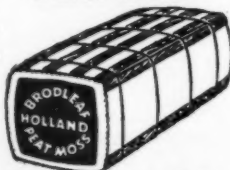
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nursery] that the legislature alone has power to designate trees and shrubs growing on land as personal property for purposes of taxation, citing several Illinois cases in support of that contention. However, such cases are of no assistance in the decision of the issue here. The Legislature has spoken on this subject. By section 12 of the revenue act (Smith-Hurd Ill. Stats. c. 120, Sec. 12; Ill. Rev.Stat. 1935, c. 120, par. 12, p. 2612) it has declared that for the purposes of general taxation 'the stock of nurseries, growing or otherwise, in the hands of nurserymen, shall be listed and assessed as merchandise.' The trees and shrubs of appellant growing in its nursery are personal property subject to general taxation both under the theory that they are grown for the express purpose of sale and severance from the soil and also by the enactment of said section 12."

PHILADELPHIA SHOW

[Continued from page 97]

dooryard and open hedgerows beyond.

Across the aisle was an authentic Oriental garden in the Japanese tradition, with symbols of mountains, waterfalls, lakes and rivers providing the over-all setting. This garden was planned by William H. Frederick, Jr., Millcreek Nursery, Newark, Del. The mountains were planted with dwarf species of mountain-type plants as part of a scene utilizing wind-bent pine, weeping cherries and Japanese quince.

A southwestern desert scene was installed by the Philadelphia Cactus and Succulent Society, featuring an adobe hut with a small garden containing up to 50 varieties of cactus and other desert plants, some minute and others up to eight feet tall.

Opposite the desert garden was the tropical patio built by William C. Judd, Judd's Hollyan Nursery, Pitman, N. J. Spanish moss was used on the trees to form a tropical fantasy. A shaded patio with a curving pool, containing water lilies, and creamy gardenias created a south-of-the-border atmosphere.

One of two popular rose gardens was designed by the Conard-Pyle Co., West Grove, Pa. This firm's garden had an arbor-like enclosure for the lounge and featured new varieties of roses, such as Sumatra, Lady Elgin, Aida and Contentment. George Hart, West Grove, designed the planting.

Another show innovation was the "Johnny Appleseed" display, in which a 1,600 square foot field with

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living apple trees and clumps of wild flowers were used against a mural of distant hills. John Whalen, of Albrecht's Nursery, Narberth, appeared at the show dressed to represent "Johnny Appleseed."

Dogwood, a feature in last year's flower show, was again exhibited. A campaign continues in this area to beautify scenic spots along highways and roads, as well as in the Fairmount park area. The 20x25-foot exhibit at the show had as a backdrop a panoramic view of the areas to be beautified and showed where dogwoods had already been added.

Among the gardens shown was the rain-or-shine patio garden, which is the answer to the problem of outdoor picnics hampered by rain. Roland Taylor designed such a patio for Styer's Nurseries, Concordville, as a flower show feature. The 1,600 square foot garden suggested a cor-

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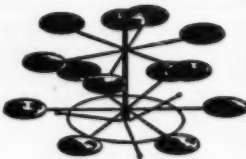
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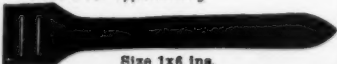
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ner of a property, with an L-shaped building corner showing, topped by a grapevine-covered shingled roof. A brick terrace, shrubs in bloom and a little pool completed the scene. A roofed patio extending into the garden was designed to protect from rain and serve as a place for storing outdoor furniture.

A garden retreat, with a patio and pool, was designed by Frederick S. Blau and set up by students of the National Agricultural College, Doylestown.

Hansen Bros., Narberth, designed an informal spring garden, featuring various ground covers.

CLEVELAND SHOW

More than 19,000 persons attended the 14th Greater Cleveland home and flower show on its opening day, March 9. The show, under the direction of Ralph P. Stoddard, was sponsored jointly by the Florists' Association of Greater Cleveland and the Home Builders' Association of Greater Cleveland at Cleveland's Public Auditorium. The theme of the 9-day show was "Prelude to Spring."

First prize in the large garden class was awarded to Arthur Hirt, of Hirt's Greenhouses, Strongsville. A background of tall evergreens and Alaska azaleas formed a setting for a formal garden, the focal point of which was a long narrow symmetrically designed pool, in which there was a figure of Pan. The pool was edged in brick and was surrounded by an oval lawn bordered by beds of smaller Alaska azaleas, yellow tulips and box-leaved Japanese holly. The front beds repeated the plantings of the back. In the corners were upright Japanese yews, and placed through the beds of tulips were yews, with small-leaved Baltic ivy used as ground cover.

Sunken Garden

Fred Schneider & Sons, Rocky River, were awarded second prize in the large garden class for a completely different type of planting—a sunken garden, consisting of a horseshoe-shaped garden path with a center of lawn bordered by brick. Following the contours of the horseshoe and circling around two stone pots of blue hydrangeas was a display of Daphne cneorum. At the extreme back of the horseshoe were a table and garden chairs flanked by tall Georgia lilies, with convex-leaved Japanese holly forming a front for the high blooms and a background for two lower crescent beds of pink hydrangeas, which were centered by two tall flowering crab apples. Placed in the background and side plantings

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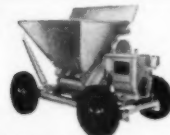
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were Japanese andromeda, spiny Greek juniper and Chinese juniper. This garden was viewed by the public from three sides.

First prize in the medium garden class was taken by Gali-Brooks greenhouse, Shaker Heights. A low walled garden walk led to a natural wood patio on the extreme right side. The center lawn was backed by flowering dogwood and rhododendron, while pink and white azaleas and tulips circled the patio, terminating in the huge Azalea Snow Queen. The flowers complemented the pink and white garden furniture on the patio.

Winner of the second prize in the medium garden class was Kurt O. Laubinger & Sons, Macedonia. An attractive field stone wall covered partially by pots of ivy was fronted by a stone fountain and small pond. Azalea Snow Queen and pink-blooming Rhododendron Dr. Dresselhuus were well blended with Taxus hicksii and azaleas to form a frame for a lawn, which, like all the bent grass used in the show, was in perfect condition. Fronting the lawn was a field stone wall bordered by hyacinths and English ivy. Red Japanese maples, flowering dogwood, azaleas and holly in the background emphasized the countless number of tulips.

Honorable mention in the medium

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garden class was given to C. Robert Perkins, Westlake. A 4-leaf clover-shaped lawn framed a circular bed of white and yellow Shasta chrysanthemums, which was bordered by dwarf holly. The background for these colorful blooms was of rhododendrons, bordered by Japanese holly, with ivy used for a ground cover. The statuary used in this garden also was by J. J. Dunn.

Small Gardens

Schlegel & Son, Parma, was first in the small garden class. A narrow garden with a fence on either side contained brick-edged beds confining both plants and grass. Bordering the sides were geraniums edged with azaleas. Tall white azaleas and rhododendrons gave the needed height to the background and complemented the green center of the lawn, as they formed a screen for the red brick patio, with its wrought-iron furniture.

Number two spot in the small garden awards was held by Sunbeam Farm, Westlake. A shallow curving section in the northeast corner of the auditorium was turned into spring by a background of tall evergreens framing a pool in the center and spreading borders of primroses, candytuft, azaleas and tulips. Water lilies surrounded a tall statue in the center of the pool.

The small garden honorable mention award was given to Jack Elliott, Warrensville Heights. The focal point in his garden was a circular sand-covered sitting area edged with a 2-foot wall of field stone; white wrought-iron garden furniture occupied the patio, while pots of geraniums decorated the wall. Beds of geraniums filled either side, with a path of bent grass leading to the sitting area. Spotted in each geranium bed was a tall Japanese andromeda, while tall pyramidal evergreens and azaleas completed the background.

The south end of the arena, which contained the auditorium stage, received special treatment from the show planning committee headed by Henry Pree, landscape architect and garden editor of the Cleveland Press. The area was transformed into a woodland scene by the combined labors of the growers' committee headed by Fred Laisy, North Olmsted, and Louis Schlegel. A waterfall and stream, surrounded by flowering dogwood and azaleas, flowed through a leaf-covered area planted with numerous varieties of interesting wild flowers grown by Wake Robin Farms, Home, Pa. Water lilies used here and elsewhere in the show came from William Tricker, Inc., Independence, O.

PLANT PATENTS

The following plant patents were issued recently, according to Rummel, Rummel & Snow, Chicago patent lawyers:

No. 1558. Rose plant. Walter E. Lamert, Livermore, Calif. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the general similarity of its foliage to that of Grande Duchesse Charlotte (plant patent No. 774), combined with a relatively vigorous, upright and taller habit of growth; longer cutting stems; much longer urn-shaped to long-pointed buds resembling those of the variety Eclipse (plant patent No. 172), and the velvety, glowing, vivid and unusually uniform cherry to Orient-red general color tonality of its open flowers.

No. 1559. Double gladiolus. Ervin H. Doerr, New Ulm, Minn. A new and distinct variety of double gladiolus, characterized as to novelty by the brilliant red coloring of the bloom, the unusually large number of petals comprising each floret, the compactness of its flower formation on a medium length stem and its good growth to a medium height.

No. 1560. Red gladiolus. Ervin H. Doerr, New Ulm, Minn. A new and distinct variety of gladiolus, characterized particularly by the pure all-over red coloring of the blooms, its white stamens and white-tipped pistils, the narrow red petaloids which give a double appearance to the blooms, the late blooming habit of the plant and its vigorous growth.

No. 1561. White gladiolus. Ervin H. Doerr, New Ulm, Minn. A new and distinct variety of gladiolus, characterized by its flower's having long, serrated and lacy, creamy-white petals; the delicate shade of green at the base of the petals and in the throat of the florets; the pale green color of the buds when the sepals first begin to divide, and the light yellow color of the new petals as the sepals begin to unfurl, turning to creamy white in the opened floret.

No. 1562. Camellia plant. Edward B. Arnesen, San Fernando, Calif. A new and distinct variety of camellia plant of the double, imbricated petal type, characterized particularly as to novelty by its general similarity to its parent variety Bleichroeder (unpatented), combined with a rhodamine pink general color tonality of its flowers which differentiates the flowers from the normally solid white color with pencil stripings of pink of the flowers of the parent variety aforesaid.

No. 1563. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, N. Y., a corporation of New York. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its good growing qualities and prolific flower production, both outdoors and in the greenhouse; the graceful and excellent form of its buds, which range from pointed to ovoid in shape; the slow-opening habit of its buds; the long-lasting quality of its open flowers, and the eosine-pink general color tonality of its flowers and the retention of such color throughout all stages of development of the flowers.

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BOOK REVIEWS

TREE EXPERTS' MANUAL

Recently issued by Dodd, Mead & Co. is a third edition of "The Complete Tree Experts' Manual," by Richard R. Fenska. Meeting the needs of a specialized branch of horticulture, this widely used, practical, well-illustrated reference work contains chapters on watering, fertilizing, transplanting, spraying and grafting trees as well as on pruning, bracing and tree surgery. It can be of value to nurserymen engaged in landscape planting and maintenance and to all concerned with the care of trees.

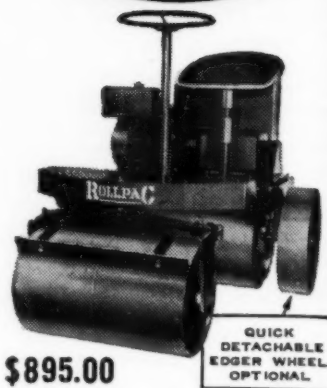
Special features of the earlier editions—a mixing chart for quick determination of compatibility or incompatibility of spray materials and a section on shade tree laws—have been retained, and the new edition, priced at \$7, has been enlarged to 345 pages by the addition of a section giving descriptions of all cultivated deciduous, evergreen and palm trees and noting the advantages and limitations of each.

CHRISTMAS TREE GROWING

Millions of seedling conifers have been planted in the last decade for the production of Christmas trees, the movement having been fostered by the farm forestry program, 4-H Club activities, soil conservation projects and the like, to which is expected to be added the huge soil bank program of the federal government. While at present only 5 per cent of the annual crop of Christmas trees are grown for that purpose, it is a respectable number, since the annual crop is in the neighborhood of 40,000,000 trees. There are organizations for Christmas tree growers and now a book for their instruction, "Christmas Trees for Pleasure and Profit," by A. G. Chapman and R. D. Wray, published at \$3.75, by Rutgers University Press.

Dr. Chapman is chief of the division of forest management research at the central states forest experiment station at Columbus, O., and Mr. Wray is editor at the station. They have combined to present a readable book of 215 pages, illustrated by numerous fine photographs and a few line drawings.

The book tells about selecting the land, species to grow, choosing planting stock, preparing the ground



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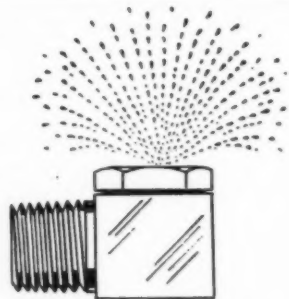
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planting, managing the plantation, shearing, grading, harvesting and marketing. There is even a final word on how to save money in computing the returns for one's income tax. Anyone who is planting any number of seedling evergreens to grow as Christmas trees will find the investment in this book a useful one.

PLANT TEXT REVISED

The recent release of a second edition of "Fundamentals of Horticulture," by J. B. Edmond, A. M. Musser and F. S. Andrews, all professors of horticulture, indicates that the text has found favor in colleges and universities as a basis for a first course in horticulture. Published by the McGraw-Hill Book Co., Inc., and priced at \$6.75, the second edition, of 440 pages, plus an extensive index, brings practices and statistical material up to date and contains a revised section on citrus fruits.

The book consists of three main divisions—plant growth and development, principal horticultural practices and principal horticultural crops. The second of these sections presents the fundamentals of propagation, transplanting, cultivating, irrigating, pruning, pest control, etc., and may be of assistance to the commercial nurseryman. One chapter provides an introduction to the nursery field as a career.

SHADE TREE CONFERENCE

[Continued from page 16]

Water should be applied as infrequently as possible, but in sufficient quantity to penetrate.

A weed control program is also helpful, not only for appearance but for reducing competition, and caution is needed so that the trees are not injured. Mowing practices require a higher clipping height for grasses in the shade. Spring seeding is seldom satisfactory.

Last to consider are the trees themselves. Evaluate the really essential trees in the scheme and see if any are superfluous. Practice high pruning, to allow sunlight to filter in. Dense stands of trees close to turf area may cause poor air drainage, which often leads to disease development. Tree leaves should be removed or mulched as quickly as possible, and where large quantities of leaves are mulched, it is necessary to add other nitrogen to assure rapid breakdown of organic material.

Plant Relationships

The next speaker was Dr. William Trogon, agronomist, Olin-Mathieson Chemical Corp., Houston. He

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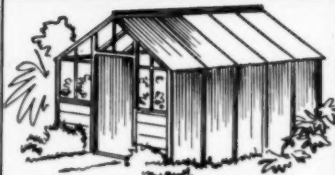
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pointed out that the soil-water-atmosphere-plant relationship involved in the growth of trees is complex and has little in common with the laws of growth regulating field crops. It is sometimes surprising how shade trees can survive the adverse conditions under which they grow. Smoke and other gases, hard-packed soil, lack of humus renewal and mulch, inadequate root spaces, reflected heat, a disrupted water table and physical injuries all make their lot hard. Dr. Trogdon stated that the health of a tree is in direct proportion to the extent and effectiveness of its feeder roots.

Soil Texture

He then discussed soil texture, moisture-holding capacity, drainage and aeration. He stated that soil densities range from 85 pounds to 146 pounds per cubic foot and when it is realized that the bulk density of concrete is 144 pounds per cubic foot it is easy to understand the problems involved in growing and maintaining trees. Besides the physical properties of the soil, one has to consider the chemical properties, such as organic matter, occurrence of layers high in soluble salts and toxic substances and the supply of plant food elements.

Five early warnings that all is not well with a tree are (1) sparse foliage, (2) leaves that are paler green than normal, (3) dieback of the tips of twigs, (4) drying and loosening of the bark and (5) abnormally slow growth. For possible causes, look first to fertility, drainage, aeration and moisture of the soil.

The kind and amount of fertilizer to use should be based upon the kind of tree, the individual soil, the fertility level of the soil, moisture relationships and whether the tree is growing in lawn or forest.

It is helpful to understand these functions of the individual plant food elements:

Nitrogen gives dark green color and promotes increased leaf and stem growth. Large quantities applied in the fall may cause winter injury.

Phosphorus stimulates early root growth, gives rapid and vigorous start to plants, is required for seed formation and may increase flowering.

Potash gives increased vigor to plants; helps plants to resist disease; promotes production of sugars, starches and oils, and has a softening effect on root membranes, making them more permeable to water and nutrients.

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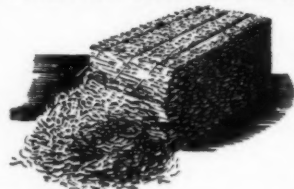
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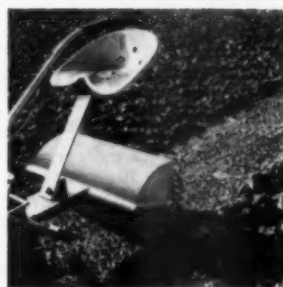
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A self-propelled lawn machine that fertilizes, prepares a fine seedbed, sows the seed, rakes in the seed and leaves the perfect finish for a beautiful lawn.

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and a plant food. It improves vigor, neutralizes acids, regulates uptake of foods and promotes early root growth.

Magnesium is essential for the formation of chlorophyll.

Sulphur gives increased root growth and good green color and encourages vigorous plant growth.

When to apply fertilizer seems debatable, but it is good practice to use a phosphorus fertilizer in a planting hole. Moderate fertilization is needed six months to a year after planting and can be safely applied during the dormant season.

Fertilizer for trees is effective when injected into the ground and supplied by foliar feeding. Foliar feeding is useful for prompt remedy of deficiencies.

In the discussion period that followed, Dr. Trogdon gave invaluable data on feeding formulae. It was noted that the trend in ornamental feeding is to use soluble fertilizers with a 1-1-1 ratio.

Useful Chemicals

Another interesting paper was given by Jack Taylor, representing the American Chemical Paint Co., Ambler, Pa. His paper, "Future Role of Chemicals in Plant Growth Control," stressed the developments that have been made and the new things to come.

Most of the activity is in the herbicide field. Although weed killers have been used for the past 50 years, it was not until the advent of 2,4-D that the different chemical companies made an intense study in this area.

Mr. Taylor stated that it is most important to know the different forms of 2,4-D and their usefulness. The three forms are (1) amines, (2)

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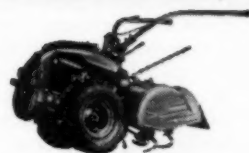
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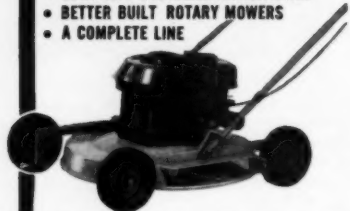
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Size	Packing	Plain	Painted	Wt./Case
4"x½"	1000/ctn. 5M/case	\$2.42	\$3.10	18 lbs.
5"x½"	1000/ctn. 5M/case	2.68	3.42	20 lbs.
6"x½"	1000/ctn. 5M/case	2.93	3.78	23 lbs.
8"x½"	500/ctn. 5M/case	4.50	5.58	26 lbs.

COPPER WIRED PLANT OR TREE LABELS (Bulk)

Size	Packing	Plain	Painted	Wt./Case
3½"x½"	1000/ctn. 5M/case	\$3.15	\$3.91	16 lbs.

Also available: DAISY BRAND 6" Boxed Wood Labels packaged in small units for repeat sales.

RETAIL PACKAGES

50 markers/box (6"x½") 48 boxes	RETAIL
15 lbs./case Cost \$7.20 case	25¢
25 markers/box (6"x½") 96 boxes	
18 lbs./case Cost \$8.64 case	15¢

DEALER PROFIT 40% ON PACKAGES

All prices F.O.B. Milford, Del. Terms 2% 10 days, Net 30.

Jobbers wholesale prices available upon request.

Write for samples. Address correspondence New York office.

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Plants: Milford, Del.—Indianhead, Md.

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Electronic Leaf Control Unit

with ½-inch solenoid valve **\$85**

WhiteShowers Misting Nozzle

Price only **\$3.00**

Sample with hose-testing cap\$3.75 postpaid

WHITE SHOWERS, Inc.

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simple or alkyl esters and (3) low-volatile esters. The amines are considered the weakest and least effective. The simple or alkyl esters are more effective for the hard-to-kill weeds where the crop is tolerant; however these esters are volatile and can injure sensitive crops in the immediate area. The low-volatile esters are safer and as useful or more so.

New Items

One of the newest materials in this field is amino-triazole with the trade name Weedazol. This is very specific on a few species. It has been highly effective on poison ivy. Slides taken at Valley Forge park, where some 700 acres were treated for poison ivy control, were shown, and it was interesting to see where ivy entwined about such trees as dogwoods was treated without harm to the trees.

In the soil sterilization field, the speaker mentioned sodium trichloroacetate, Dalpon, Baron, borates, sodium arsenite and phenyl ureas. Also, there are root-growth stimulants, wilt controls or preventives and gibberellic acid.

Mr. Harper concluded his talk with details about brush control and showed slides illustrating the different methods.

Trees in Cans

Canned trees was the topic of Dr. Ray R. Hirt, college of forestry, Syracuse, N. Y. With excellent slides supplementing his talk, Dr. Hirt gave arborists and planters cause for concern and an insight into future plant ailments which might be brought about by the use of container-grown materials, especially trees.

Dr. Hirt mentioned the functions of the root system and the importance of normal root growth in the initial stages of development. In many instances, plants grown for too long a period in impervious containers exhibit abnormal growth habits, especially crippled root systems. He said there should be concern over the long-time effect of container growing upon such plants and what measure might be taken to correct the conditions.

Root Problems

When root tips spread to the sides of the container and follow down the sides and become compacted and entwined there seems to be evidence, as the plants age and the diameters of roots increase, that damage results. This situation is comparable to crowding roots in a planting pocket too small to accommodate them and having the sides of the pocket too solid for the roots to penetrate. The

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result is a sick plant, due to the demand of the top upon a restricted root system. Also, in many cases, the rootlets die and become invaded with root-rot fungus, which eventually works its way to the trunk.

Arborists familiar with girdling roots and the effects on older trees might well wonder if container-grown stock held too long gives an early start toward such a condition. Dr. Hirt stated that the taprooted species in particular, when grown in containers, form a tight spiral that seldom can be straightened and may have a harmful effect on the tree in later years. His slides showed examples of gnarled and twisted roots grown in containers and the eventual results when effort had not been made to straighten out the roots at planting time after removal from the container.

Dr. Hirt declared he did not wish to disparage the practice of growing woody stock temporarily in impervious containers, but that study should be made to determine if container stock should be handled differently from field-grown stock after planting. He surmised that arborists will be confronted with plant health problems in the future that might have originated in the container stage of their life.

This paper emphasized the fact that studies should be made of what species should, perhaps, not be container grown and also the fact that plants can be left too long in containers.

A resume of the problems of the Texas forest service was given by its representative at the conference. Of interest to foresters and landscape planters was the news that selection has been made of a drought-resistant loblolly pine which can survive on half the annual rainfall requirement. This new strain will soon be available.

An excellent talk, "Modern Selling Takes Planning," was presented the last morning of the conference, March 13, by Carl B. Kreiner, assistant to the president of the Gold Seal Co., Bismarck, N. D. Mr. Kreiner made his talk around the three points: (1) Technical knowledge of the product or service being sold, (2) work and (3) personality. When the salesman really knows his product or service, works hard and has a personality which is engaging, assuring, persuasive and dynamic, he cannot fail at selling.

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Please send complete catalog on display equipment for nurserymen.

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	Each per 100
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More upright form of Radicans.
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18 to 24 ins.	60c

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Besides the grand prize, there will be four national cash prizes totalling \$1,500.00, and 30 regional cash prizes totalling \$6,500.00! Over \$8,000.00, just for increasing sales!

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- ALDENHAMENSIS**, 2 ft., 3 ft., 4 ft.
Single red
- DOLGO**, 18 ins., 2 ft., 3 ft.
Early white
- FLORIBUNDA**, 3 ft., 4 ft.
Early pink
- HOPA**, 3 ft., 4 ft.
Purplish-red
- PRUNIFOLIA XANTHOCARPA**, 2 ft., 3 ft.
Single white and pink
- PURPUREA ELEYI**, 3 ft., 4 ft.
Purplish-red, purple summer foliage
- RED SILVER**, 2 ft., 3 ft.
Single red
- RINGO**, 2 ft.
Pink, dark green shiny foliage
- SARGENTI**, 12 ins., 15 ins., 18 ins.
Dwarf tree (6 to 8 ft.). Late white.

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Sold in multiples of 10.

12 ins., XX, field.....	\$0.50
15 ins., XX, field.....	.55
18 ins., XX, field.....	.60
2 ft., XX, field.....	.65
3 ft., XX, field.....	.80
4 ft., XX, field.....	1.00

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JUNIPERUS CHINENSIS COLUMNARIS GLAUCA

Thick, columnar growth of bluish foliage.

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Prostrate growth, rich green whipcord foliage.

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Conical growth, silvery-blue whipcord foliage.

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Heavy globe growth, bluish under foliage.

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Conical growth, bright green all year.

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Compact, conical growth, bright green all year.

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Conical growth, frosty-blue foliage.

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Very compact conical growth, green in summer, plum colored in winter.

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75c	70c		

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BERRYER, 15 ins., 18 ins., 24 ins.
Double mauve

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Double dark red

GENERAL SHERIDAN, 24 ins., 30 ins.
Double white

JACQUES CALLOT, 15 ins., 18 ins.
Single rose

LUDWIG SPAETH, 12 ins., 15 ins., 18 ins.
Double red

FLORENT STEPMAN, 15 ins., 18 ins.,
24 ins.
Single white

MARECHAL LANNES, 12 ins., 15 ins.,
18 ins.
Double violet-blue

PRESIDENT GREVY, 12 ins., 15 ins., 18 ins.
Double blue

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Single true blue

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PRICES

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